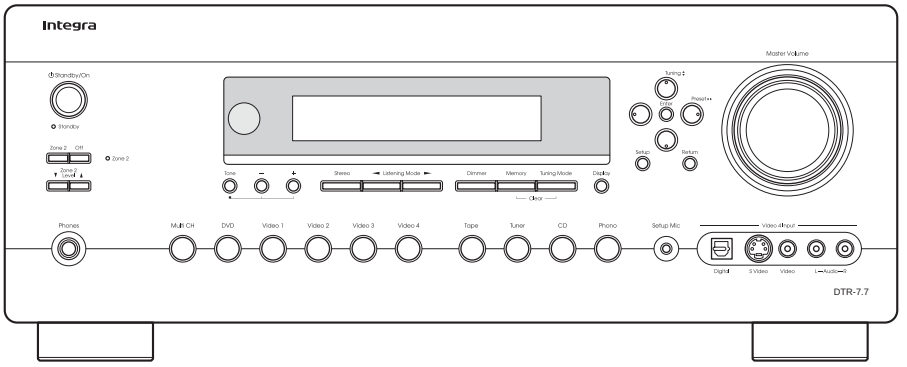
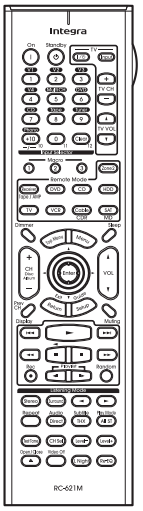
Ref. No. 3966
Oct, 2006

Integra SERVICE MANUAL

AV RECEIVER
MODEL DTR-7.7





RC-621M

Black model

B MDD	120V AC, 60Hz
B MPA	230V~240V AC, 50Hz

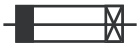
SAFETY-RELATED COMPONENT WARNING!!

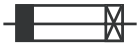
COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SERVICE PROCEDURE

1. Replacing the fuses

 This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse, For fuse rating, refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

<Notes>

<DD> : DTR-7.7 U.S.A. model
<PA> : DTR-7.7 Australian model

REF NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
F901	FUSE	10A-UL/T-233	252330GR	!, <DD>
F901	FUSE	6.3A-SE-EAK	252079GR	!, <PA>
F903	FUSE	5A-UL/T-233	252326GR	!, <DD>
F903	FUSE	2.5A-SE-EAK	252075GR	!, <PA>
F931	FUSE	1.6A-SE-EAK	252073GR	!
F932	FUSE	1.6A-SE-EAK	252073GR	!
F951	FUSE	6.3A-SE-EAK	252079GR	!
F952	FUSE	6.3A-SE-EAK	252079GR	!
F6901	FUSE	12A-TUL-250V	252301GR	!
F6902	FUSE	12A-TUL-250V	252301GR	!

2. To initialize the unit

1. Press and hold down VIDEO 1 button, then press STANDBY/ON button when the unit is Power on.
2. After " *Clear* " is displayed, the preset memory and each mode stored in the memory are initialized and will return to the factory settings, and turn to Standby mode.

3. Safety check out

(U.S.A. model only)
After correcting the original service problem, perform the following safety check before releasing the unit to the customer.

Leakage current Check

Measure the leakage current to a known earth ground (water pipe or conduct etc.) by connecting a leakage current tester between the earth ground and exposed metal parts of the unit (input/output ground terminals, screw heads or metal overlays etc.).
Plug the power supply cord directly into a 120Vac 60Hz wall socket and turn STANDBY button on.
Any current measured must not exceed 0.5mA.

4. Memory Backup

This model uses a battery-less memory backup system in order to retain radio presets and other settings when it's unplugged or in the case of a power failure.
Although no batteries are required, the unit must be plugged into an AC outlet in order to charge the backup system. Once it has been charged, the unit will retain the settings for several weeks, although this depends on the environment and will be shorter in humid climates.

OPERATION CHECK-1

SPEAKER PROTECT-1 (DC VOLTAGE DETECTION)

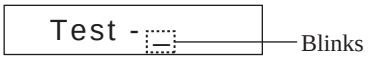
[When]

1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange amplifier PC board ass'y (NAAF-8678, NAAF-8682).

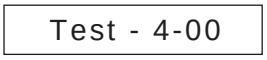
[Procedure]

<Note> No load. No input signal.

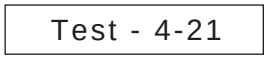
1. Press and hold down CD button, then press STANDBY/ON button while the unit is Power ON.
" Test - _ " is displayed only for 5 seconds.



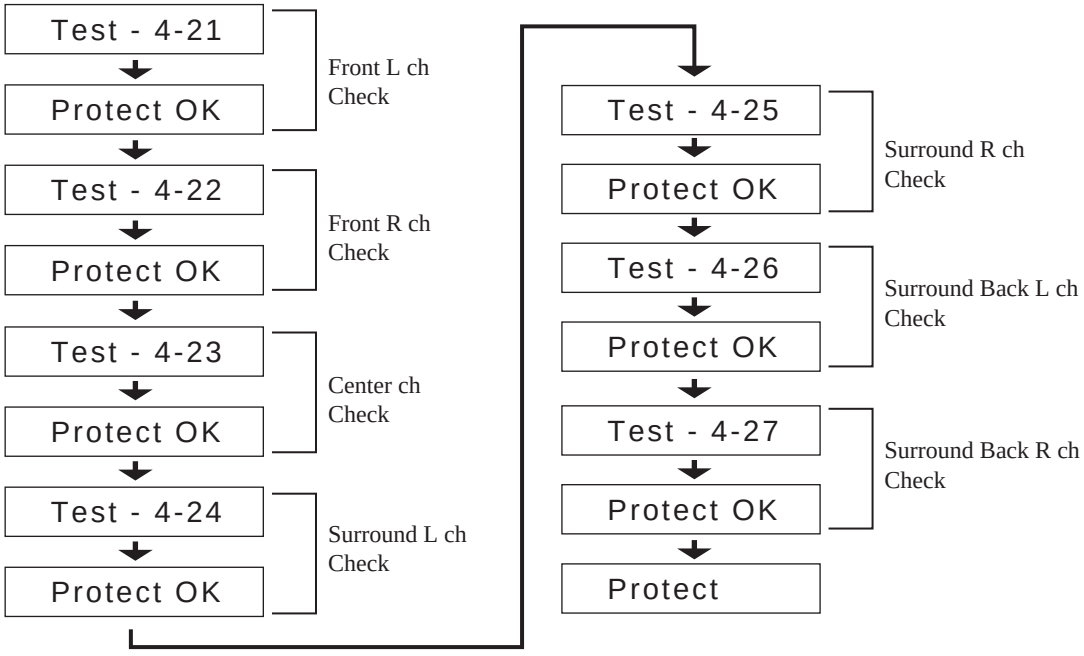
2. Press VIDEO 3 button, while the characters of " Test - _ " are displayed.
The unit will be in the state of " Test-4-00 ".



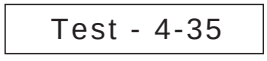
3. Repeatedly press TONE+ button until the characters of " Test-4-21 " are displayed.



Check whether the operation starts and continues automatically as follows.



If all channels are OK, the characters of " Test - 4 - 35 " are finally displayed.



4. Press STANDBY/ON button.

OPERATION CHECK-2

SPEAKER PROTECT-2 (CURRENT DETECTION)

[When]

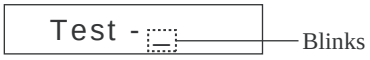
1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange amplifier PC board ass'y (NAAF-8678, NAAF-8682).

[Procedure]

<Note>

No input signal.
Do not check two or more channels at the same time.
Do not connect a dummy load to speaker terminals longer than 2 seconds.

1. Press and hold down CD button, then press STANDBY/ON button while the unit is Power ON.
" Test - _ " is displayed only for 5 seconds.



2. Press VIDEO 3 button, while " Test - _ " is displayed.
The unit will be in the state of " Test-4-00 ".

3. Repeatedly press TONE + button until " Test-4-35 " is displayed.

4. Connect a dummy load of 3 ohms to the Front L ch speaker terminals.
At this time, confirm that the speaker relay is not turned off.

5. Connect a dummy load of 1 ohm to the Front L ch speaker terminals.
At this time, confirm that the speaker relay is turned off and " Protect " will bev displayed.

Disconnect the dummy load immediately after checking the display of " Protect ".

6. Check other channels according to the same procedure as 4 and 5.

FL → FR → C → SL → SR → SBL → SBR

7. Press STANDBY/ON button.

OPERATION CHECK-3

CONTROL OF POWER SUPPLY (SPEAKER OUTPUT SENSOR AND THERMAL DETECTOR)

[When]

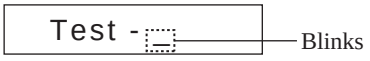
1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange power amplifier PC board ass'y (NAAF-8678, NAAF-8682).
3. Exchange thermal sensor PC board ass'y (NAETC-8680).

[Procedure]

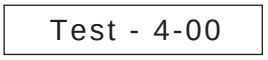
<Note> No output. No input.

Output Sensor

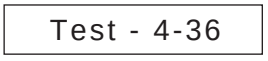
1. Press and hold down CD button, then press STANDBY/ON button while the unit is Power ON.
" Test - _ " will be displayed only for 5 seconds.



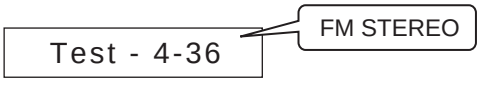
2. Press VIDEO 3 button while " Test - _ " is displayed.
The unit will be in the state of " Test-4-00 ".



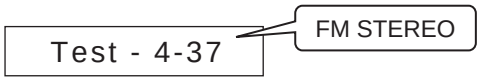
3. Repeatedly press TONE+ button until " Test-4-36 " is displayed.



4. At this time, confirm that the red characters of " FM STEREO " is displayed.
And, confirm that the relays (RL6901 and RL6902) are turned off in 2 or 3 seconds. (FL+FR+C+SL check)



5. Press TONE+ button and confirm that the red characters of " FM STEREO " is displayed and the relays (RL6901 and RL6902) are turned off in 2 or 3 seconds as well as 4. (C+SR+SBL+SBR check)

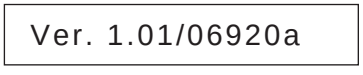


6. Press STANDBY/ON button.

Thermal Detector

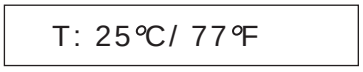
1. Press and hold down DISPLAY button, then press STANDBY button when the unit is power ON.
The main microprocessor version will be displayed only for 3 seconds.

<Ex.>



2. Press TONE button while the version is displayed, then the temperature will be displayed.

<Ex.>



3. Confirm that the displayed temperature is within +/-20℃ from the ambient temperatures.

4. Press STANDBY/ON button.

OPERATION CHECK-4
CONTROL OF COOLING FAN

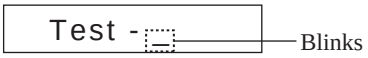
[When]

1. Exchange power transistors (Q6050 - Q6056, Q6060 - Q6066).
2. Exchange power amplifier PC board ass'y (NAAF-8678, NAAF-8682).
3. Exchange thermal sensor PC board ass'y (NAETC-8680).
4. Exchange cooling fan.

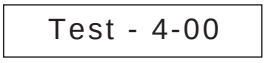
[Procedure]

1. Confirm that the cooling fan doses not rotate at no audio input signals.

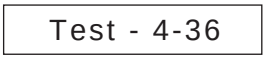
2. Press and hold down CD button, then press STANDBY/ON button while the unit is Power ON.
   " Test - _ " will be displayed.



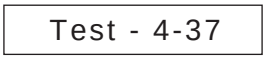
3. Press VIDEO 3 button while " Test - _ " is displayed. The unit will be in the state of " Test-4-00 ".



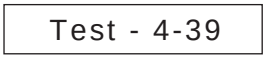
4. Repeatedly press TONE+ button until " Test-4-36 " is displayed. Then confirm that the cooling fan rotates in low speed.



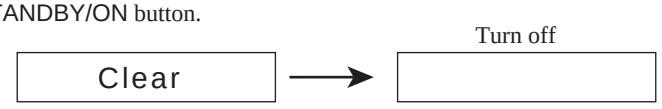
5. Press TONE+ button and confirm that the cooling fan rotates in low speed.



6. Press TONE+ button two times and confirm that the cooling fan rotates in fast speed.



7. Press the STANDBY/ON button.



DEBUG MODE -1

How to Check Versions of Main, DSP and Video(HDMI) Microprocessor

1. Press and hold down DISPLAY button, then press STANDBY/ON button when the unit is power ON.
   The main microprocessor version will be displayed on FL for 3 seconds.

<Ex.> Ver.1.01/06920a

2. Press SETUP button while the version is displayed, then " DSP Ver: " will be displayed.

DSP Ver:

3. Press ENTER button while " DSP Ver: " is displayed, then " DSP F/W Update " will be displayed.

DSP F/W Update

4. Again, press and hold down DISPLAY button, then press STANDBY/ON button in order to get DSP version.
5. Press SETUP button a few times.
   The versions of DSP ROM ---> Video(HDMI) microprocessor ---> Main microprocessor will be displayed in turn.

<Ex.> DSP Ver:05Y28A

<Ex.> HDM.Ver:06607A

<Ex.> Ver.1.01/06920a

6. To check DSP version next time, the procedures of 2-4 are not necessary until the power cord is off.

How to Set in Debug Mode

1. Press and hold down DISPLAY button, then press STANDBY button while the unit is power ON.
   The version number of microprocessor is displayed only for 3 seconds.

<Ex.> Ver.1.01/06920a

2. Press DISPLAY button while the version is displayed, then the status of DSP and DIR etc will be displayed.

<Ex.> E6A48K017FF00x0

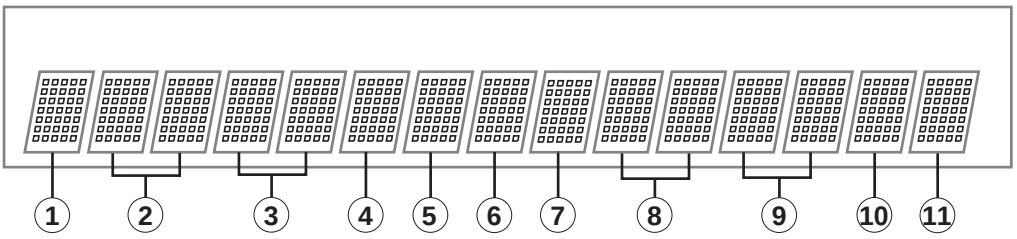
Refer to next page to see the information displayed for detail.

3. To exit, press STANDBY/ON button.

DEBUG MODE -2

Content of Display

FL Display



---------- DIR ----------

① **UNLOCK**
E = UNLOCK
_ = LOCK

② **Digital Selector**
D = DIGITAL
A = ANALOG
1 = Coax 1
2 = Coax 2
3 = Opt 1
4 = Opt 2
5 = Opt 3
7 = Front Opt

③ **Sampling Frequency**
96 = 96kHz
48 = 48kHz
44 = 44.1kHz
32 = 32kHz
--- = Not Detected

④ **PreEmphasis**
K = OFF
e = ON

⑤ **DIR STATUS**
0 = ANALOG
1 = PCM
2 = NOT_PCM
3 = DATA
4 = DTS CD
5 = MCH
6 = NOT DECIDED

---------- MEMORY / DOWNLOAD ----------

⑥ **AUTOBOOT DSP AB CODE**
0 = FLASH
1 = AB_AC3_PL2
2 = AB_dts_PL2
3 = AB_NEO6
4 = sgen_AB
5 = AB_PL2fs
6 = AB_dts_6dol
7 = AB_dts9624
8 = AAC

⑦ **AUTOBOOT DSP C CODE**
0 = C_dts9624
1 = C_neo6
2 = C_OOS_no_sd
3 = C_OOS
4 = C_oob
5 = C_PL2
6 = C_PL2xTHX
7 = C_THX
8 = c_spsetup
9 = vers

---------- DSP ----------

⑧ **DSP Status**

00 = POWER OFF
01 = POWER ON WAIT
10 = DSP RESET
11 = DSP RESET WAIT
12 = DSP AB BOOT Ready
13 = DSP AB BOOT start
14 = DSP AB BOOT
15 = DSP C BOOT Ready
16 = DSP C BOOT start
17 = DSP C BOOT
18 = DSP SOFT RESET
20 = DSP C APP_START
21 = DSP C HW CONFIG SET
22 = DSP C SW CONFIG SET
23 = DSP C SW CONFIG SET
24 = DSP C SW CONFIG SET
25 = DSP C SW CONFIG SET
26 = DSP C SW CONFIG SET
27 = DSP C SW CONFIG SET
28 = DSP C SW CONFIG SET
29 = DSP C SW CONFIG SET
2A = DSP C SW CONFIG SET
3F = DSP C KICK START
40 = DSP AB APP_START
41 = DSP AB HW CONFIG SET
42 = DSP AB SW CONFIG SET
43 = DSP AB SW CONFIG SET
44 = DSP AB SW CONFIG SET
45 = DSP AB SW CONFIG SET
46 = DSP AB SW CONFIG SET
47 = DSP AB SW CONFIG SET
48 = DSP AB SW CONFIG SET
49 = DSP AB SW CONFIG SET
4A = DSP AB SW CONFIG SET
4B = DSP AB SW CONFIG SET
4F = DSP AB KICK START
FF = FREE

⑨ **DSP Detect Format**

IEC61937 Format
00 = Null
01 = Dolby Digital
03 = Pause
04 = MPEG1 L1
05 = MPEG1 L23 / MPEG2 w/o
06 = MPEG2 w/e
07 = MPEG2 AAC
08 = MPEG2 L1
09 = MPEG2 L2/3
0B = DTS1
0C = DTS2
0D = DTS3
1B = MPEG2 AAC1
1C = MPEG2 AAC2

NOT IEC61937 Format
20 = Silent
21 = DTS LD
22 = DTS CD
23 = PCM

⑩ **DSP Decode**
O = Decode OK
X = Decode NG
- = ANALOG In

---------- Main Microprocessor ----------

⑪ **Mute Condition**
0 = mute off
1 = mute during input selector's switching
2 = mute during parameter's switching
4 = DSP Mute
8 = DIR Mute
3 = 1 + 2
5 = 1 + 4
6 = 2 + 4
7 = 1 + 2 + 4
9 = 1 + 8
A = 2 + 8
B = 1 + 2 + 8
C = 4 + 8
D = 1 + 4 + 8
E = 2 + 4 + 8
F = 1 + 2 + 4 + 8

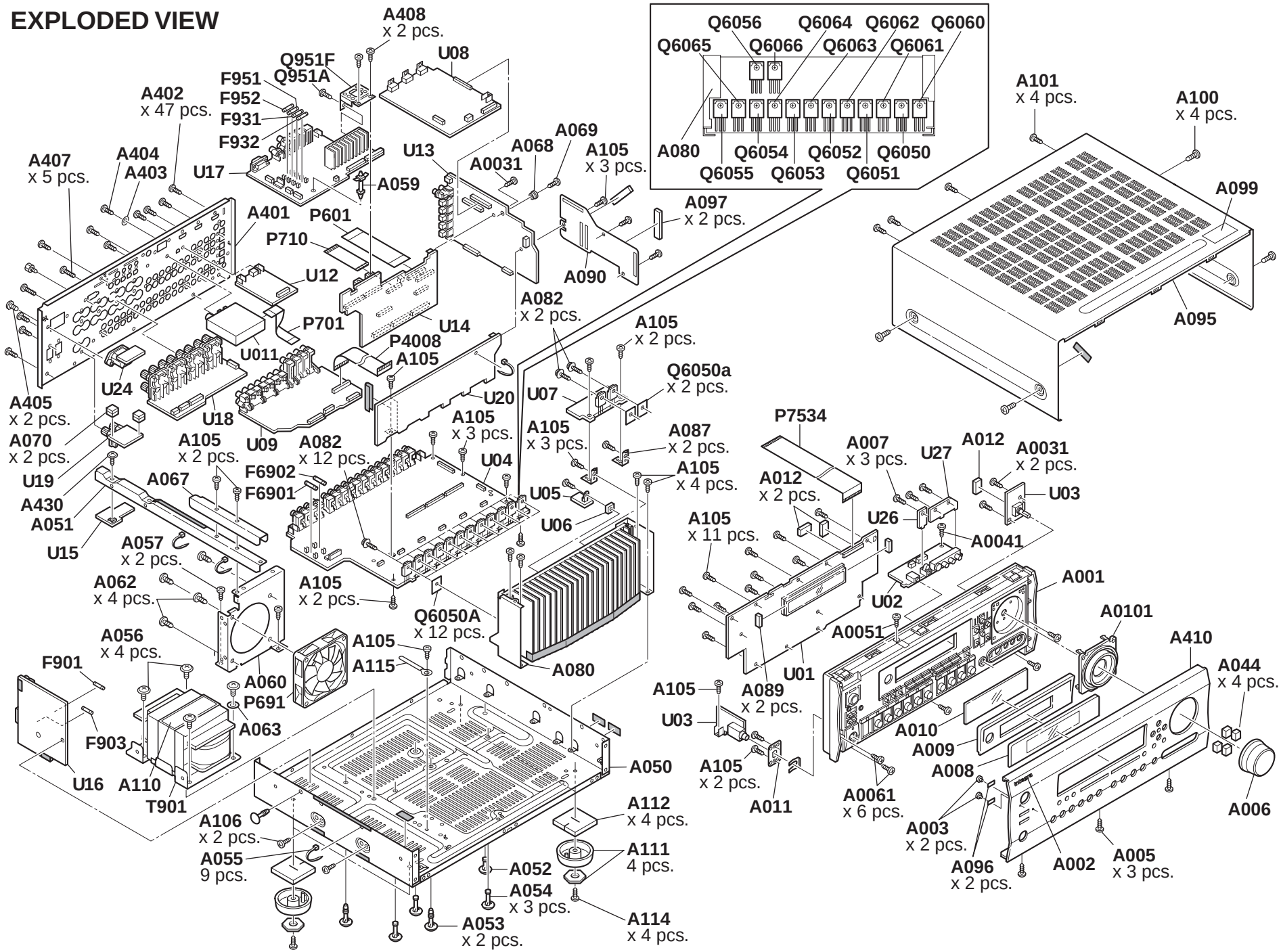
DEBUG MODE -3

Trouble Cause Analysis by Debug Mode

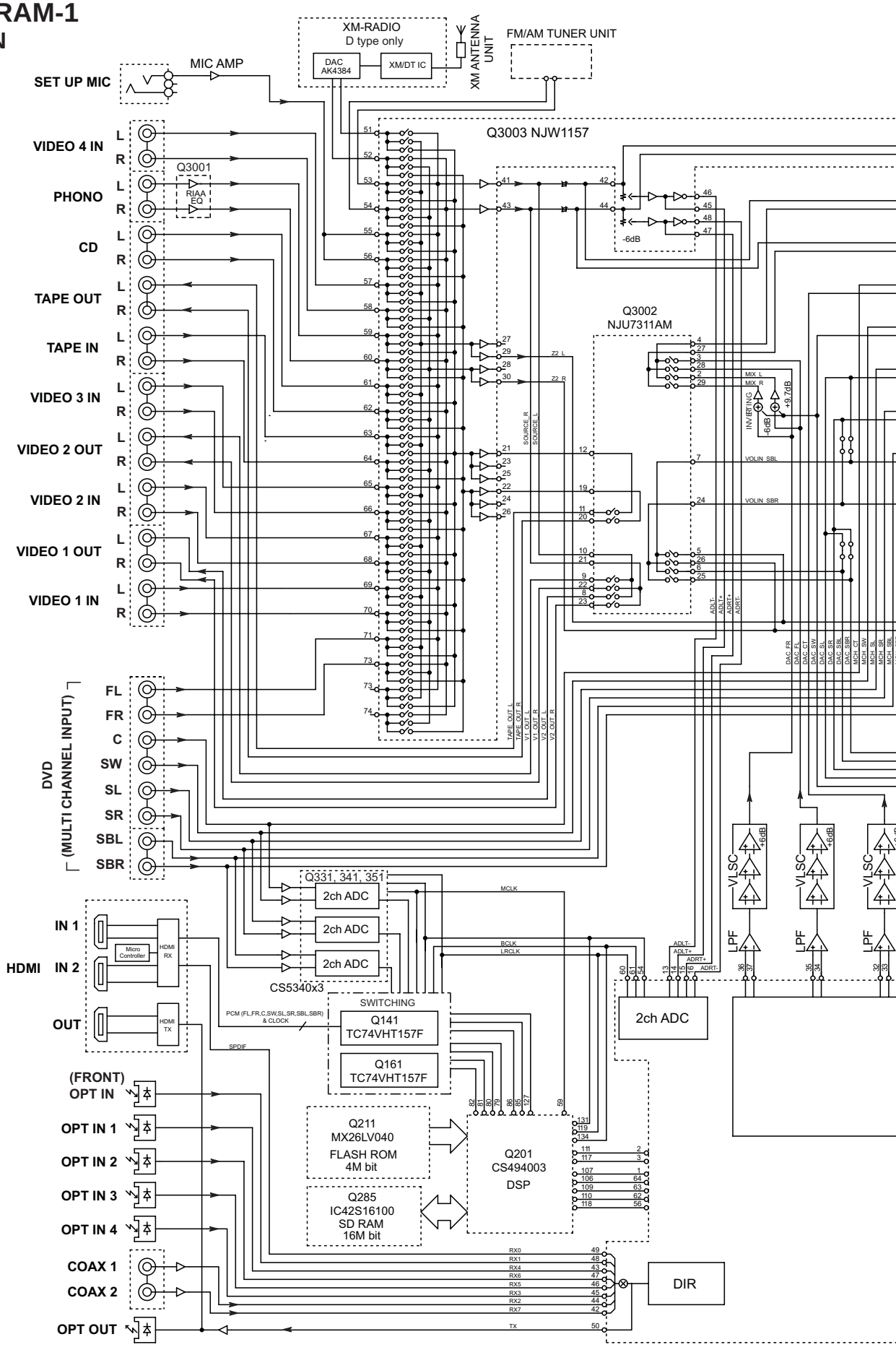
This debug mode will help in analysing digital audio no sound trouble.
Check information on FL display and the related devices or circuits below.

Digit No. on FL	Symptom on Display	Cause	Check
①	"E" is displayed	No input signal to DIR	Related devices and circuits from digital input to Q361
③	Displayed freq. is different from input signal freq.	No input signal to DIR	Related devices and circuits from digital input to Q361
⑤	Displayed format is different from input signal format	No input signal to DIR	Related devices and circuits from digital input to Q361
⑨	Displayed format is different from input signal format	Input signal to DSP is no good	Related devices and circuits from Q361 to Q201
⑩	"x" is displayed	Interface between DSP and main micro processor is no good	Related devices and circuits from Q701 to Q201
⑪	"4" is displayed	DSP outputs error to main micro processor, which outputs mute	Q701, Q201, Q301 & related devices and circuits
⑪	"8" is displayed	DIR outputs error to main micro processor, which outputs mute	Q5701, Q201, Q361 & related devices and circuits

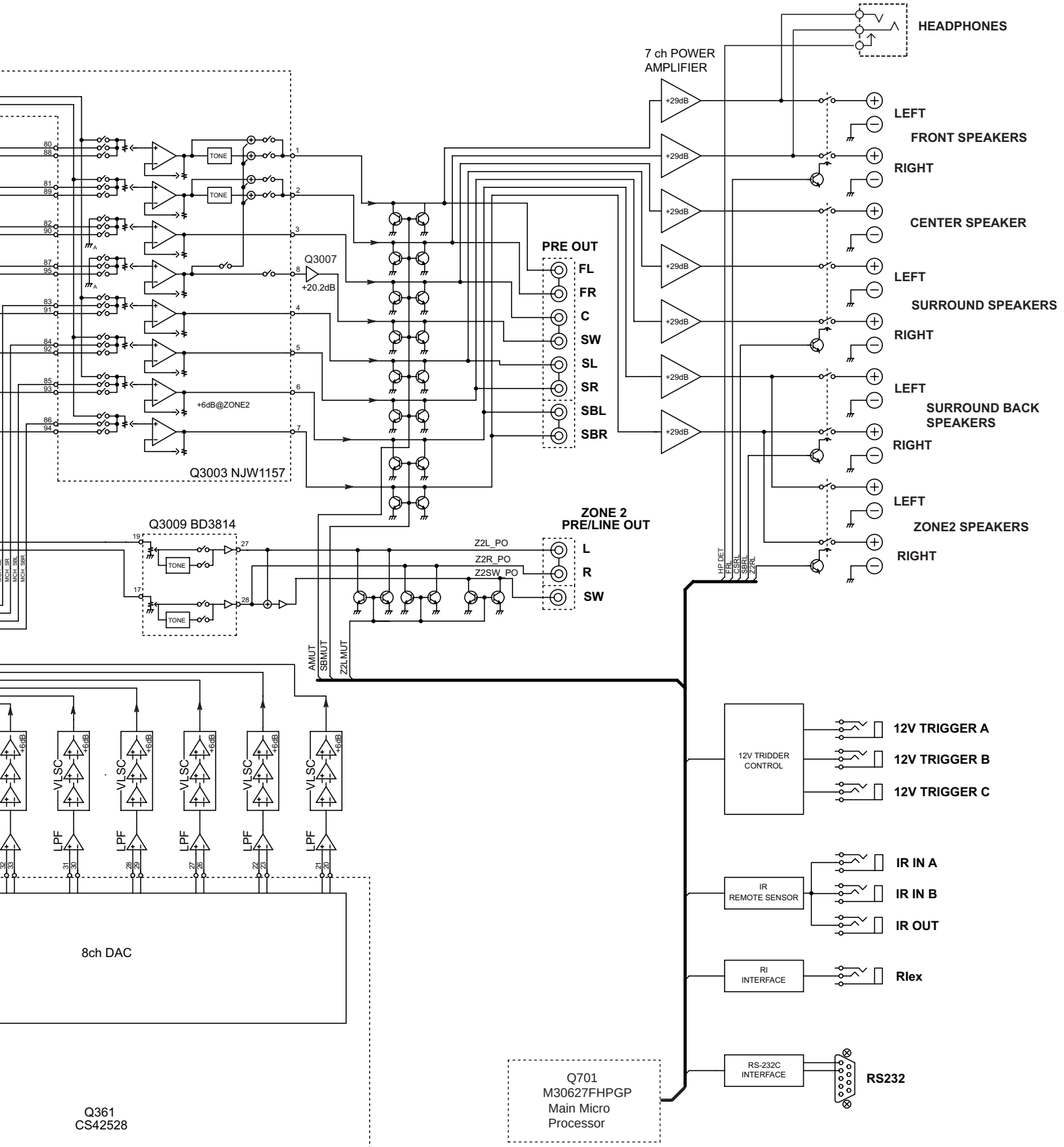
EXPLODED VIEW



BLOCK DIAGRAM-1
AUDIO SECTION

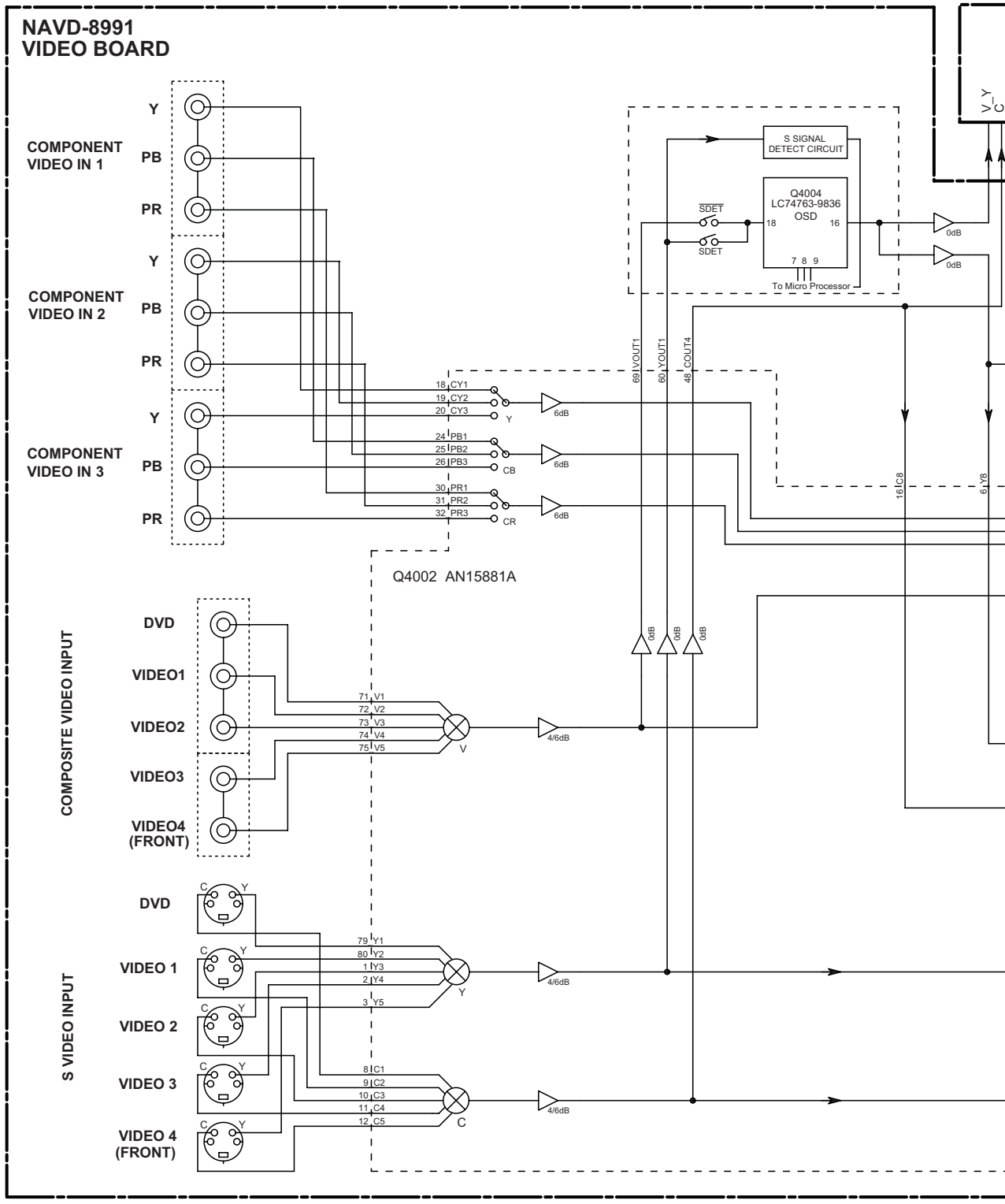


E F G H

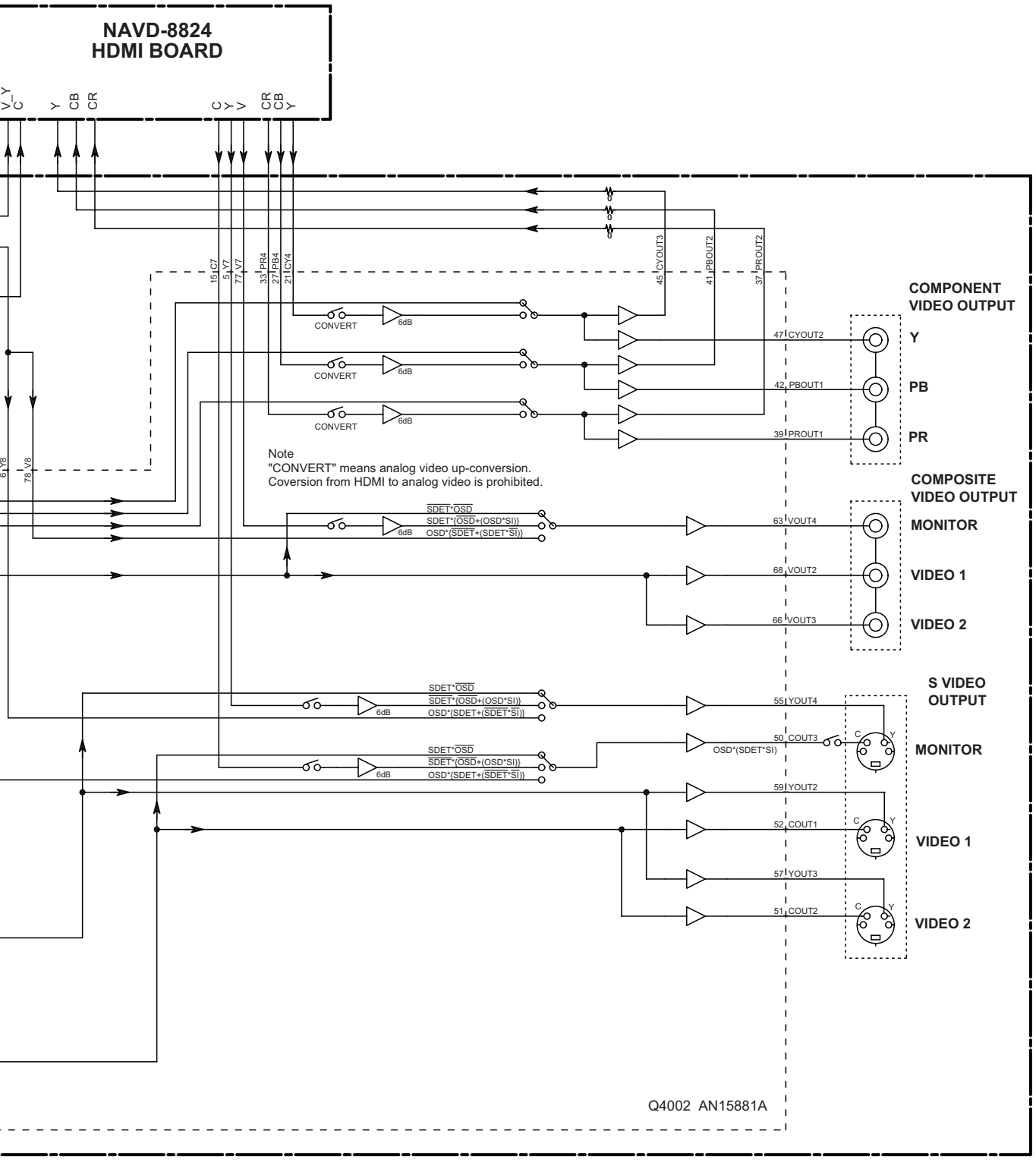


<Note>
Refer to SCHEMATIC DIAGRAM-13(SD-13) for the digital audio signal flow and wave forms.

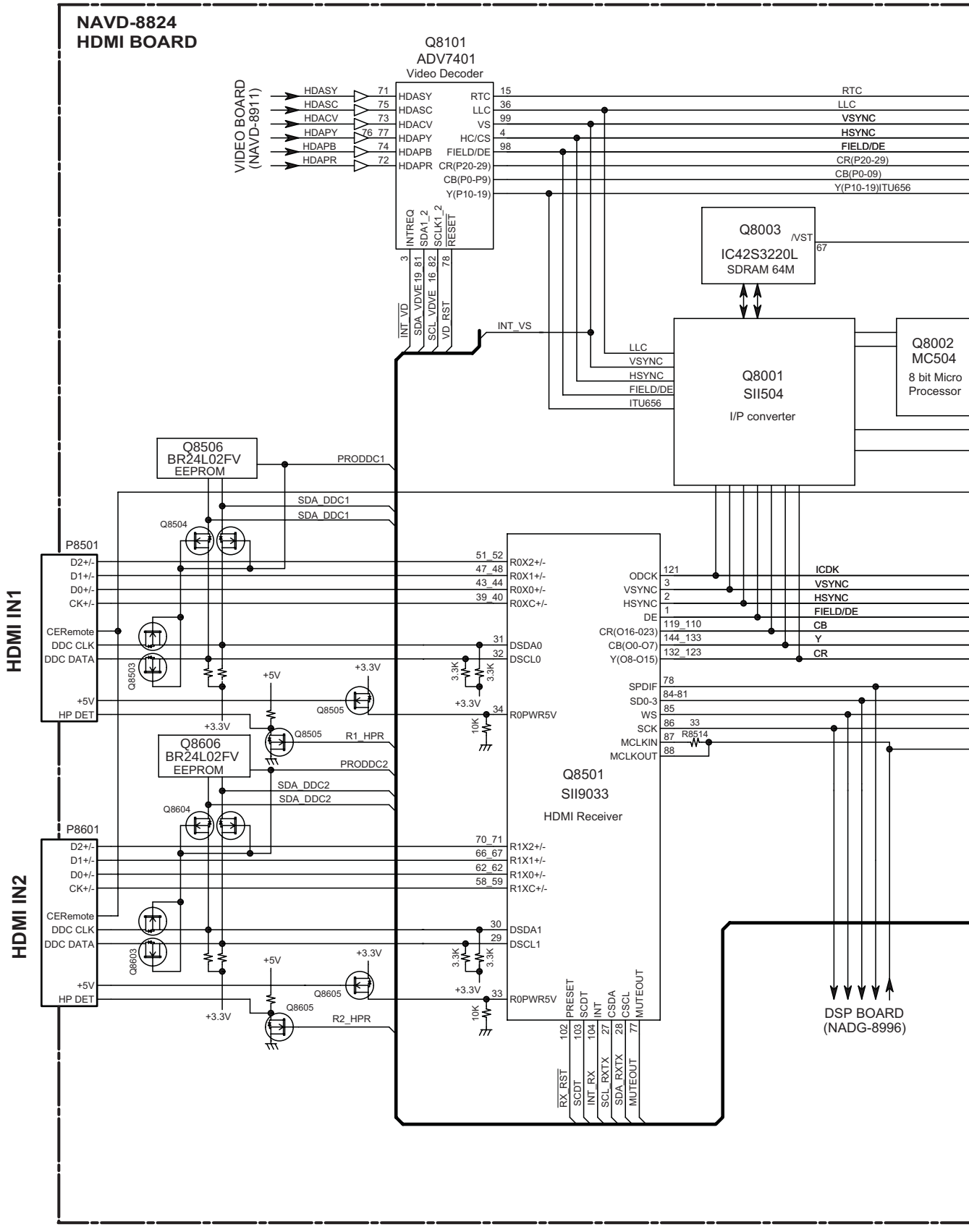
BLOCK DIAGRAM-2
VIDEO SECTION-1



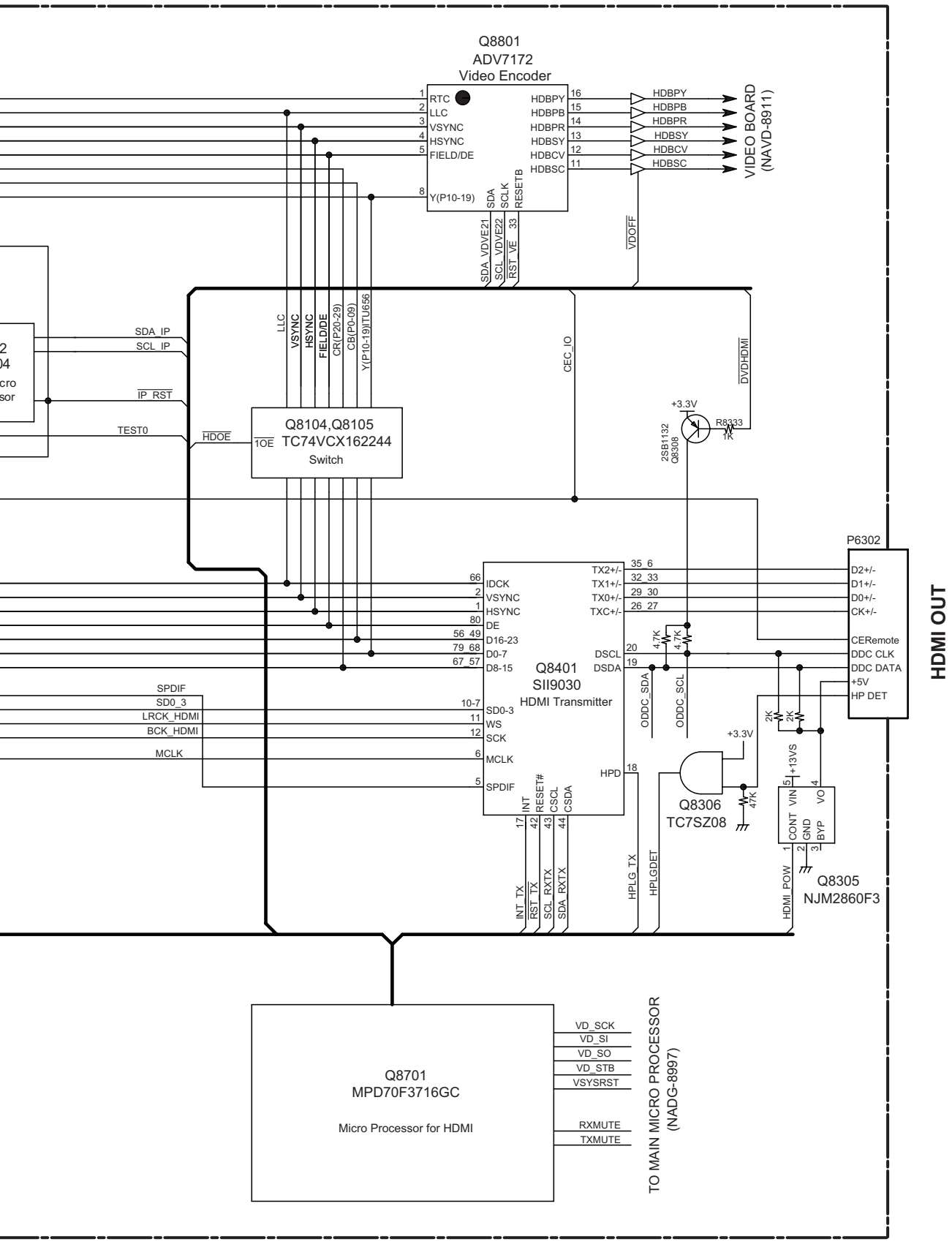
E F G H


NAVD-8824
HDMI BOARD
V_Y
C
Y
CB
CR
C
Y
V
CR
CB
Y
15 C7
5 Y7
77 V7
33 PR4
27 PB4
21 CY4
45 CYOUT3
41 PBOUT2
37 PROUT2
CONVERT
6dB
COMPONENT
VIDEO OUTPUT
47 CYOUT2
Y
42 PBOUT1
PB
39 PROUT1
PR
Note
"CONVERT" means analog video up-conversion.
Coversion from HDMI to analog video is prohibited.
6 Y8
78 V8
SDET*OSD
SDET*{OSD+(OSD*SI)}
OSD*{SDET+(SDET*SI)}
COMPOSITE
VIDEO OUTPUT
63 VOUT4
MONITOR
68 VOUT2
VIDEO 1
66 VOUT3
VIDEO 2
S VIDEO
OUTPUT
55 YOUT4
50 COUT3
OSD*(SDET*SI)
MONITOR
59 YOUT2
52 COUT1
VIDEO 1
57 YOUT3
51 COUT2
VIDEO 2
C
Y
Q4002 AN15881A

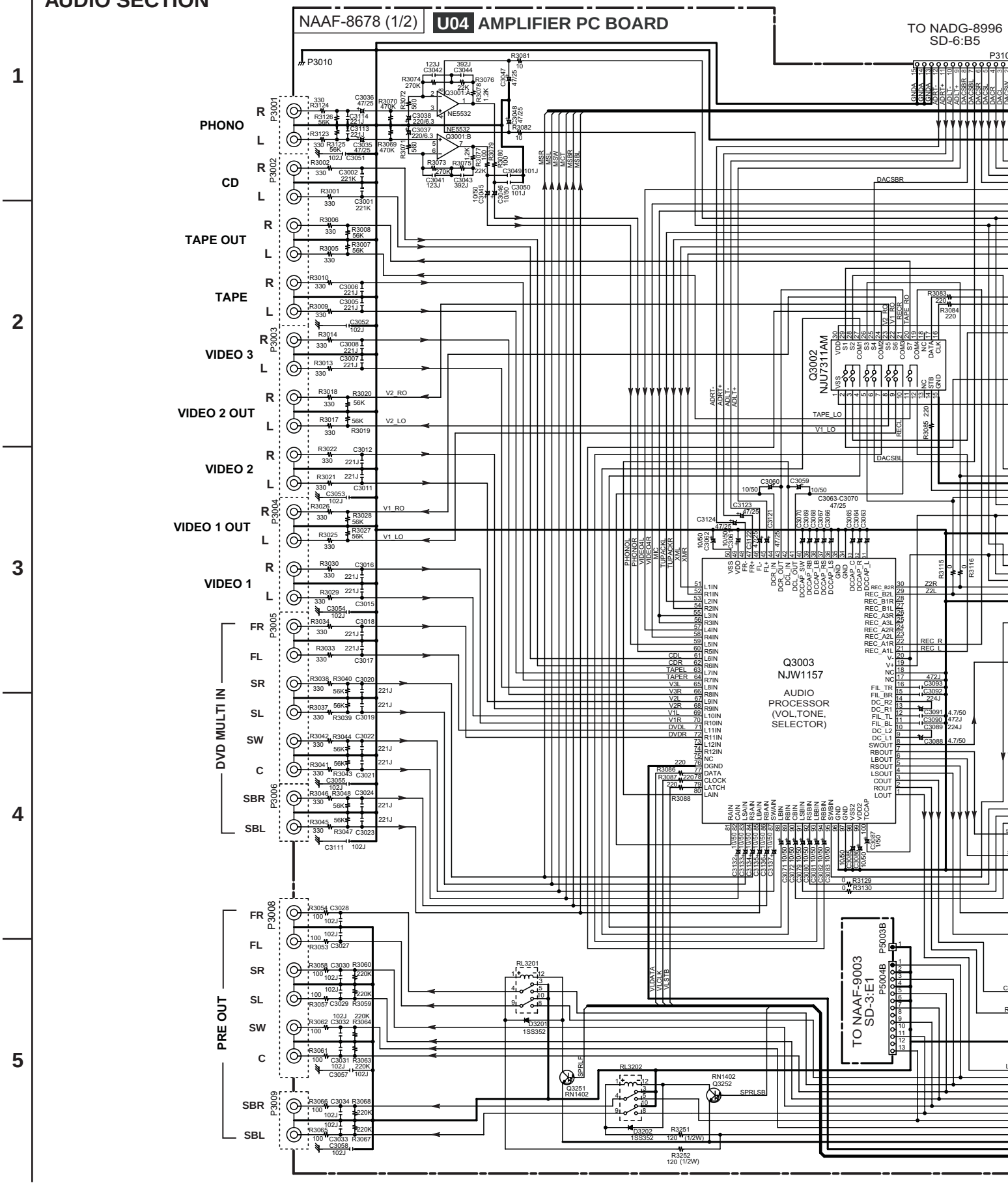
BLOCK DIAGRAM-3
VIDEO SECTION-2



E F G H


Q8801
ADV7172
Video Encoder
RTC
LLC
VSYNC
HSYNC
FIELD/DE
Y(P10-19)
SDA
SCLK
RESETB
HDBPY
HDBPB
HDBPR
HDBSY
HDBCV
HDBSC
VIDEO BOARD
(NAVD-8911)
SDA_VDVE21
SCL_VDVE22
RST_VE
33
VDOFF
SDA_IP
SCL_IP
IP_RST
TEST0
HDOE
LLC
VSYNC
HSYNC
FIELD/DE
CR(P20-29)
CB(P0-09)
Y(P10-19)ITU656
CEC_IO
DVDHDMI
Q8104,Q8105
TOE TC74VCX162244
Switch
+3.3V
R8333
1K
2SB1132
Q8308
P6302
HDMI OUT
Q8401
SII9030
HDMI Transmitter
IDCK
VSYNC
HSYNC
DE
D16-23
D0-7
D8-15
SD0-3
WS
SCK
MCLK
SPDIF
TX2+/-
TX1+/-
TX0+/-
TXC+/-
DSCL
DSDA
HPD
4.7K
ODDC_SDA
ODDC_SCL
D2+/-
D1+/-
D0+/-
CK+/-
CERemote
DDC CLK
DDC DATA
+5V
HP DET
SPDIF
SD0_3
LRCK_HDMI
BCK_HDMI
MCLK
INT
RESET#
CSCL
CSDA
INT_TX
RST_TX
SCL_RXTX
SDA_RXTX
HPLG_TX
HPLGDET
Q8306
TC7SZ08
47K
2K
+13VS
CONT
VIN
GND
BYP
VO
HDMI_POW
Q8305
NJM2860F3
Q8701
MPD70F3716GC
Micro Processor for HDMI
VD_SCK
VD_SI
VD_SO
VD_STB
VSYSRST
RXMUTE
TXMUTE
TO MAIN MICRO PROCESSOR
(NADG-8997)

SCHEMATIC DIAGRAM-1 (SD-1)
AUDIO SECTION



E F G H

<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS. EX) ⊙⊙⊙ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

TO NADG-8996
SD-6:E5

P3101A

P3102A

TO NAAF-8678(2/2)
SD-2A3:A4

TO NAAR-8997
SD-4:D5

TO NAAR-8997
SD-4:E5

TO NAAR-8997
SD-4:E5

P3103A

P3104A

P3105A

NE5532
Q3007:A

Q3009
BD3814

NJM7812FA
Q3507

Q3508
NJM7912FA

NE5532
Q3007:B

Q3008:A
NE5532
Q3008:B

SCHEMATIC DIAGRAM-2 (SD-2)
POWER AMP SECTION-1

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭▭▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

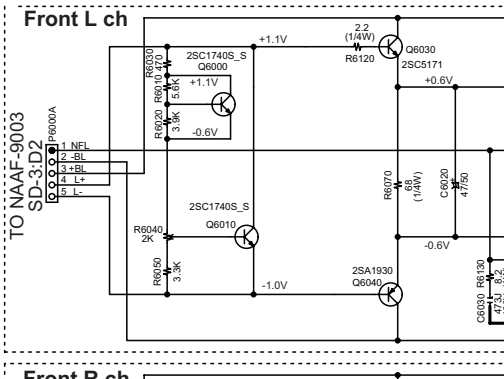
<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NAETC-8680
U05 THERMAL DETECTOR PC BOARD

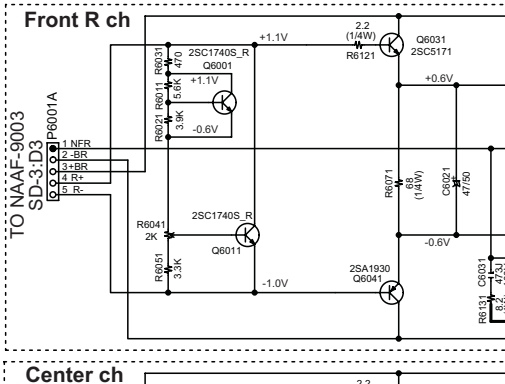
TO NAAR-8997
SD-7:E1

NAAF-8678 (2/2) **U04 AMPLIFIER PC BOARD**

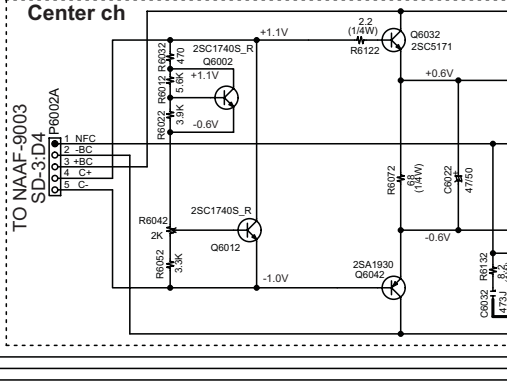
Front L ch



Front R ch



Center ch



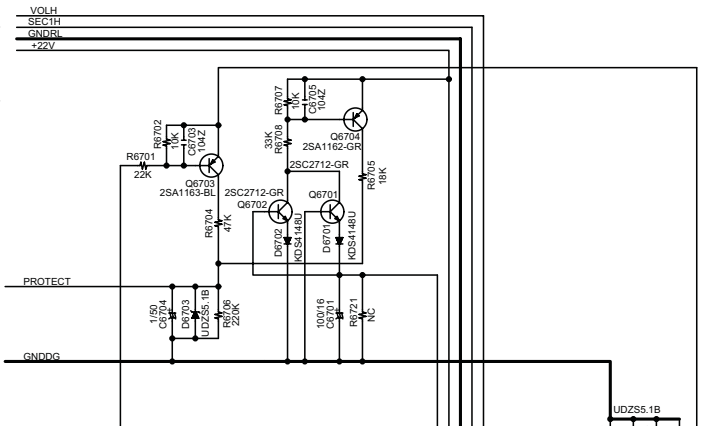
TO NAAF8678(1/2)
(SD-1:G2)

VOLH
SEC1H
GNDRL
+22V

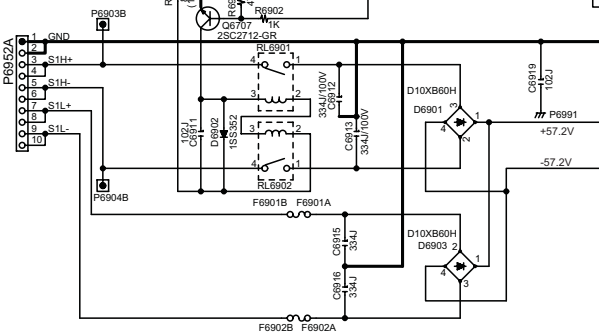
PROTECT

GNDDG

HPF
HPR
HPL



TO TRANSFORMER
P6952A



TO NAETC-9001
SD-7:E2

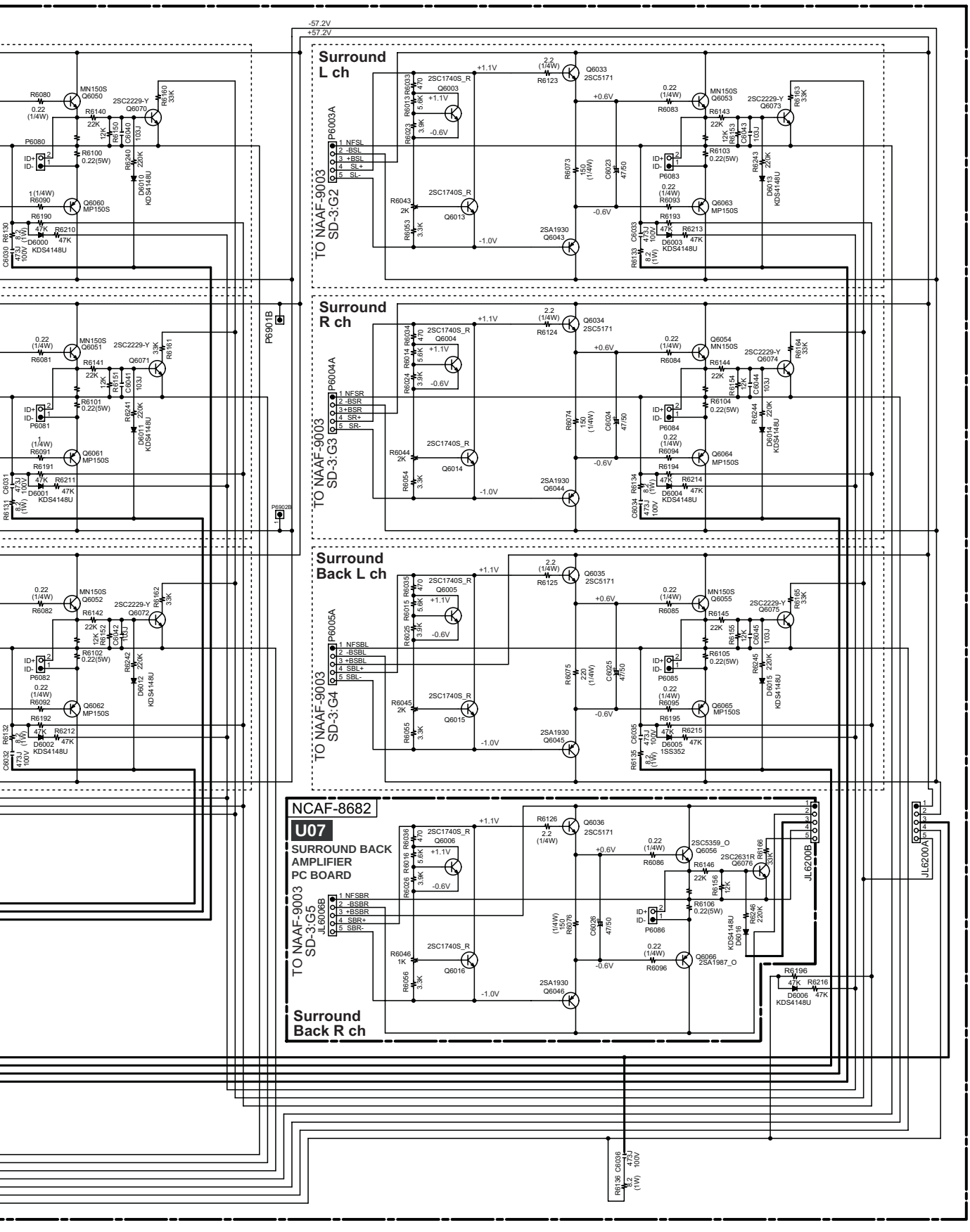
JL6603A
1 LSPE
2 RSPE
3 CSPE
4 SLSPE
5 SRSPE
6 SBLSPE
7 SBRSPE
8 RLGND
9 +22V

R6180 390 (1/2W)
R6181 390 (1/2W)

TO NAETC-9001
SD-7:E2

JL6600A
1 LSP
2 RSP
3 CSP
4 SLSP
5 SRSP
6 SBLSP
7 SBRSP

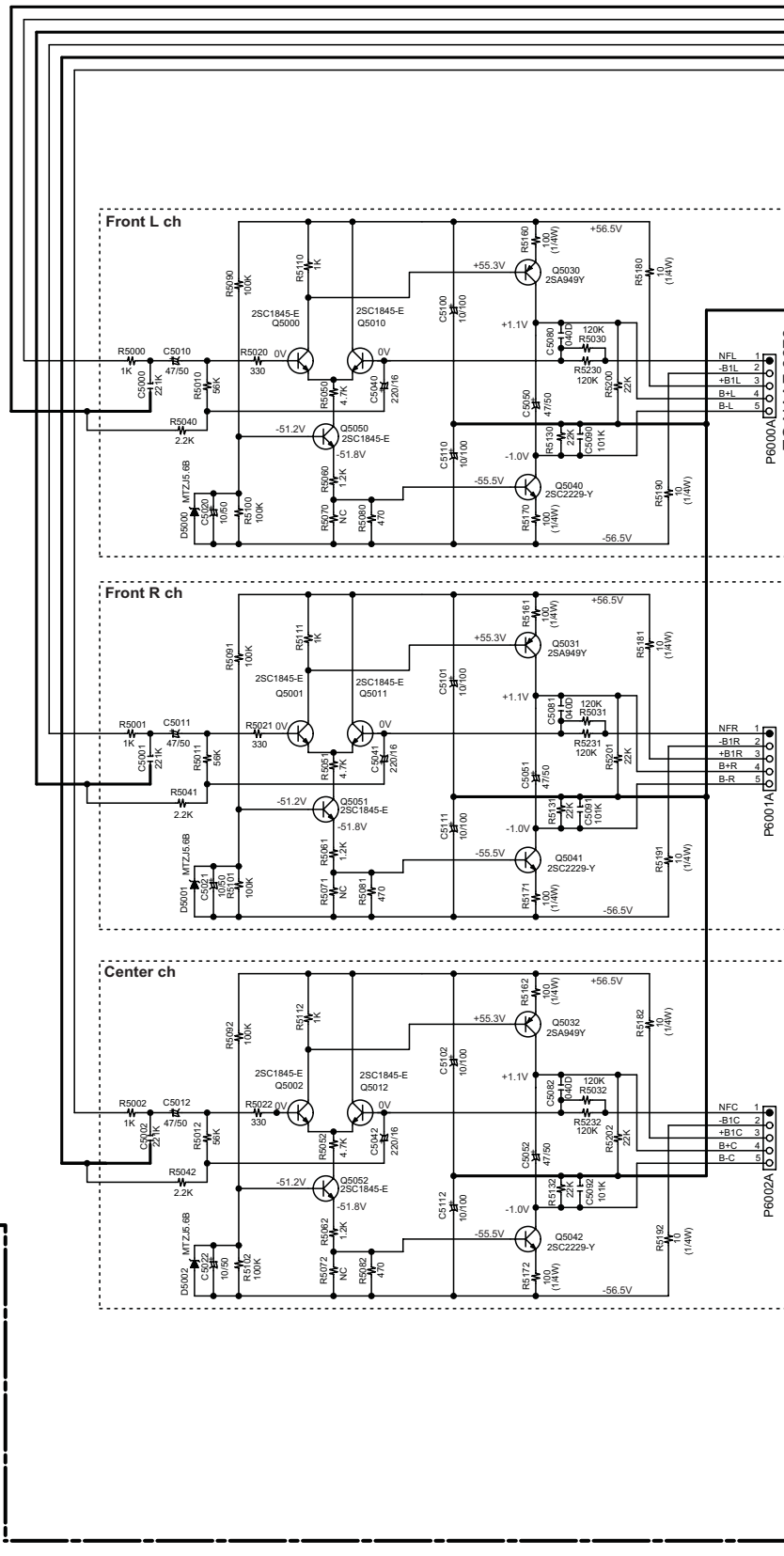
E F G H


-57.2V
+57.2V
Surround L ch
TO NAAF-9003 SD-3:G2
P6003A
1 NFSL
2 -BSL
3 +BSL
4 SL+
5 SL-
Surround R ch
TO NAAF-9003 SD-3:G3
P6004A
1 NFSR
2 -BSR
3 +BSR
4 SR+
5 SR-
Surround Back L ch
TO NAAF-9003 SD-3:G4
P6005A
1 NFSBL
2 -BSBL
3 +BSBL
4 SBL+
5 SBL-
NCAF-8682
U07
SURROUND BACK AMPLIFIER PC BOARD
TO NAAF-9003 SD-3:G5 JL6006B
1 NFSBR
2 -BSBR
3 +BSBR
4 SBR+
5 SBR-
Surround Back R ch
P6901B
JL6200B
JL6200A
MN150S Q6050
2SC2229-Y Q6070
MN150S Q6051
Q6071
MN150S Q6052
Q6072
MN150S Q6053
Q6073
MN150S Q6054
Q6074
MN150S Q6055
Q6075
2SC5359_O Q6056
2SC2631R Q6076
Q6033 2SC5171
Q6034 2SC5171
Q6035 2SC5171
Q6036 2SC5171
2SA1930 Q6043
2SA1930 Q6044
2SA1930 Q6045
2SA1930 Q6046
2SA1987_O Q6066
2SC1740S_R Q6003
2SC1740S_R Q6004
2SC1740S_R Q6005
2SC1740S_R Q6006
2SC1740S_R Q6013
2SC1740S_R Q6014
2SC1740S_R Q6015
2SC1740S_R Q6016
Q6060 MP150S
Q6061 MP150S
Q6062 MP150S
Q6063 MP150S
Q6064 MP150S
Q6065 MP150S
D6000 KDS4148U
D6001 KDS4148U
D6002 KDS4148U
D6003 KDS4148U
D6004 KDS4148U
D6005 1SS352
D6006 KDS4148U
D6010 KDS4148U
D6011 KDS4148U
D6012 KDS4148U
D6013 KDS4148U
D6014 KDS4148U
D6015 KDS4148U
D6016 KDS4148U
P6080
P6081
P6082
P6083
P6084
P6085
P6086
+1.1V
+0.6V
-0.6V
-1.0V

SCHEMATIC DIAGRAM-3 (SD-3)
POWER AMP SECTION-2

NAAF-9003

U20 DRIVER AMPLIFIER PC BOARD



<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

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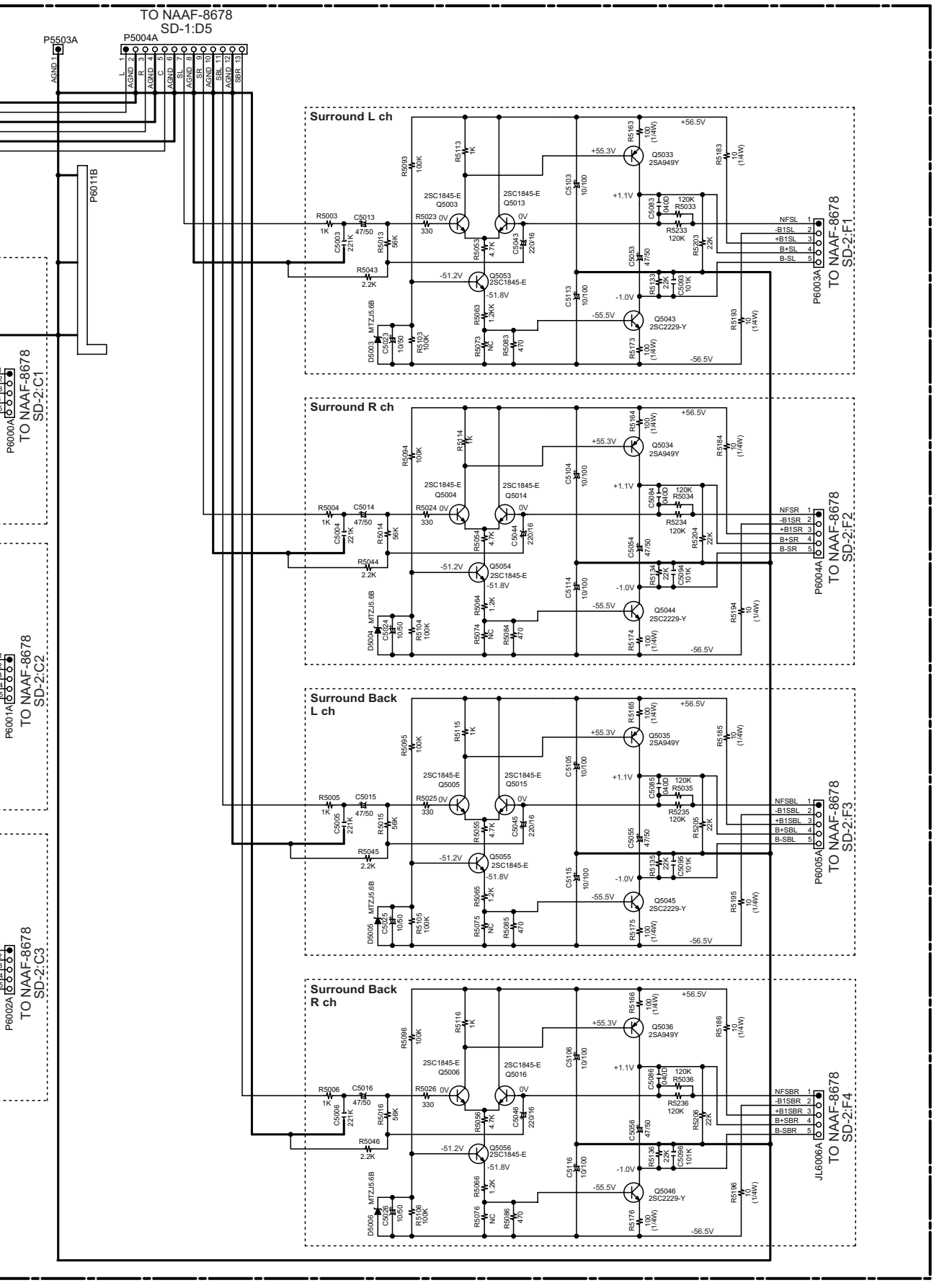
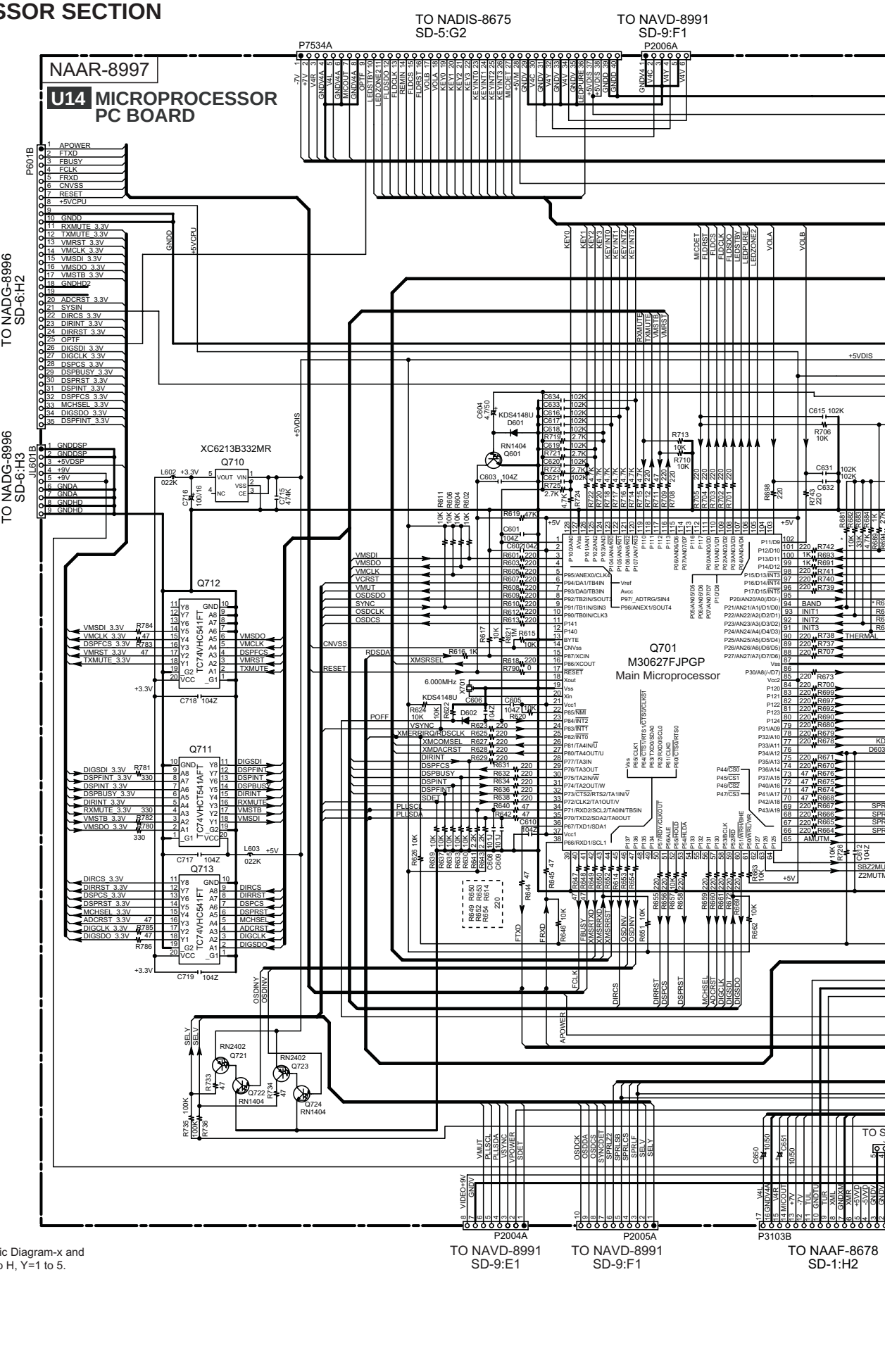
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⏚) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

E F G H


TO NAAF-8678
SD-1:D5
P5503A
P5004A
P6011B
Surround L ch
Surround R ch
Surround Back
L ch
Surround Back
R ch
2SC1845-E
Q5003
Q5013
Q5004
Q5014
Q5005
Q5015
Q5006
Q5016
Q5033
2SA949Y
Q5034
2SA949Y
Q5035
2SA949Y
Q5036
2SA949Y
Q5043
2SC2229-Y
Q5044
2SC2229-Y
Q5045
2SC2229-Y
Q5046
2SC2229-Y
Q5053
2SC1845-E
Q5054
2SC1845-E
Q5055
2SC1845-E
Q5056
2SC1845-E
+56.5V
+55.3V
+1.1V
-1.0V
-55.5V
-56.5V
-51.2V
-51.8V
0V
NFSL
-B1SL
+B1SL
B+SL
B-SL
NFSR
-B1SR
+B1SR
B+SR
B-SR
NFSBL
-B1SBL
+B1SBL
B+SBL
B-SBL
NFSBR
-B1SBR
+B1SBR
B+SBR
B-SBR
P6003A
P6004A
P6005A
JL6006A
P6000A
P6001A
P6002A
TO NAAF-8678
SD-2:F1
TO NAAF-8678
SD-2:F2
TO NAAF-8678
SD-2:F3
TO NAAF-8678
SD-2:F4
TO NAAF-8678
SD-2:C1
TO NAAF-8678
SD-2:C2
TO NAAF-8678
SD-2:C3

SCHEMATIC DIAGRAM-4 (SD-4)
MICROPROCESSOR SECTION



<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.
</Note>

E F G H

TO NAETC-8680
SD-2:A2

Part_A
(XM RADIO)

TO NARF-8994
SD-12:H4

TO NAETC-8676(JL7542B)
SD-5:E5

JL703B

P710A

JL7452A

S-812C56AUA-C3K

Q714

DESTINATION DIFF. LIST

FUNC	C-NO	DC	PA
BAND	R681	NO	10K
	R685	0	NO
Part_A		YES	NO

TO NAPS-9000
SD-8:E5

TO NAPS-9000
SD-8:D2

TO SD-4:E5

P959A

JL961A

P954A

NJM78L09UA
Q715

P701A

TO TUNER UNIT

TO SD-4:G3

JL961B

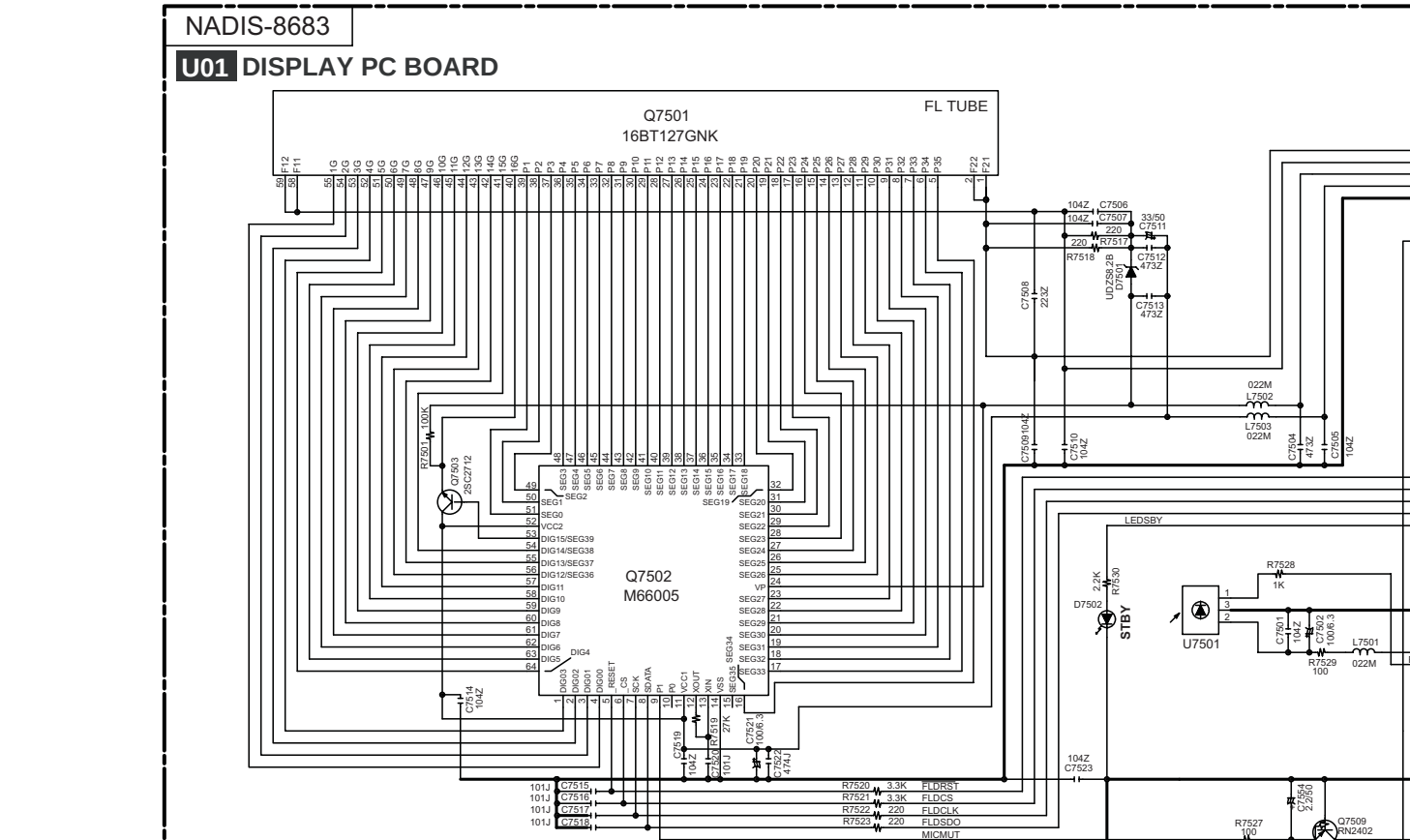
P3104B

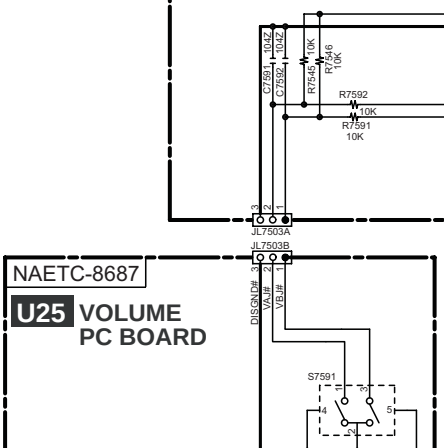
P3105B

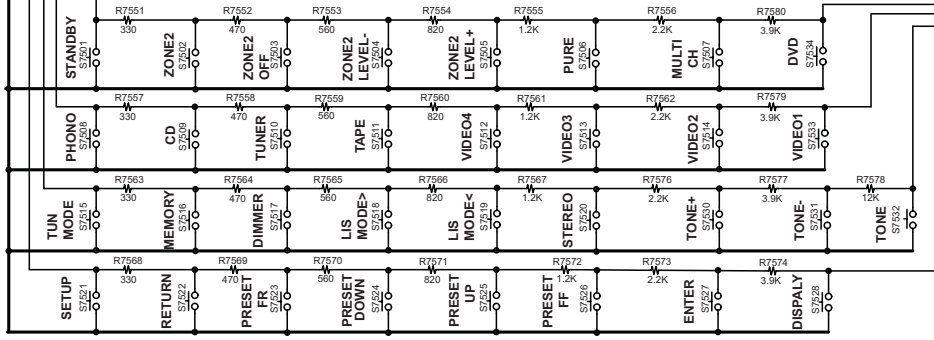
TO NAAF-8678
SD-1:H2

TO NAAF-8678
SD-1:H3

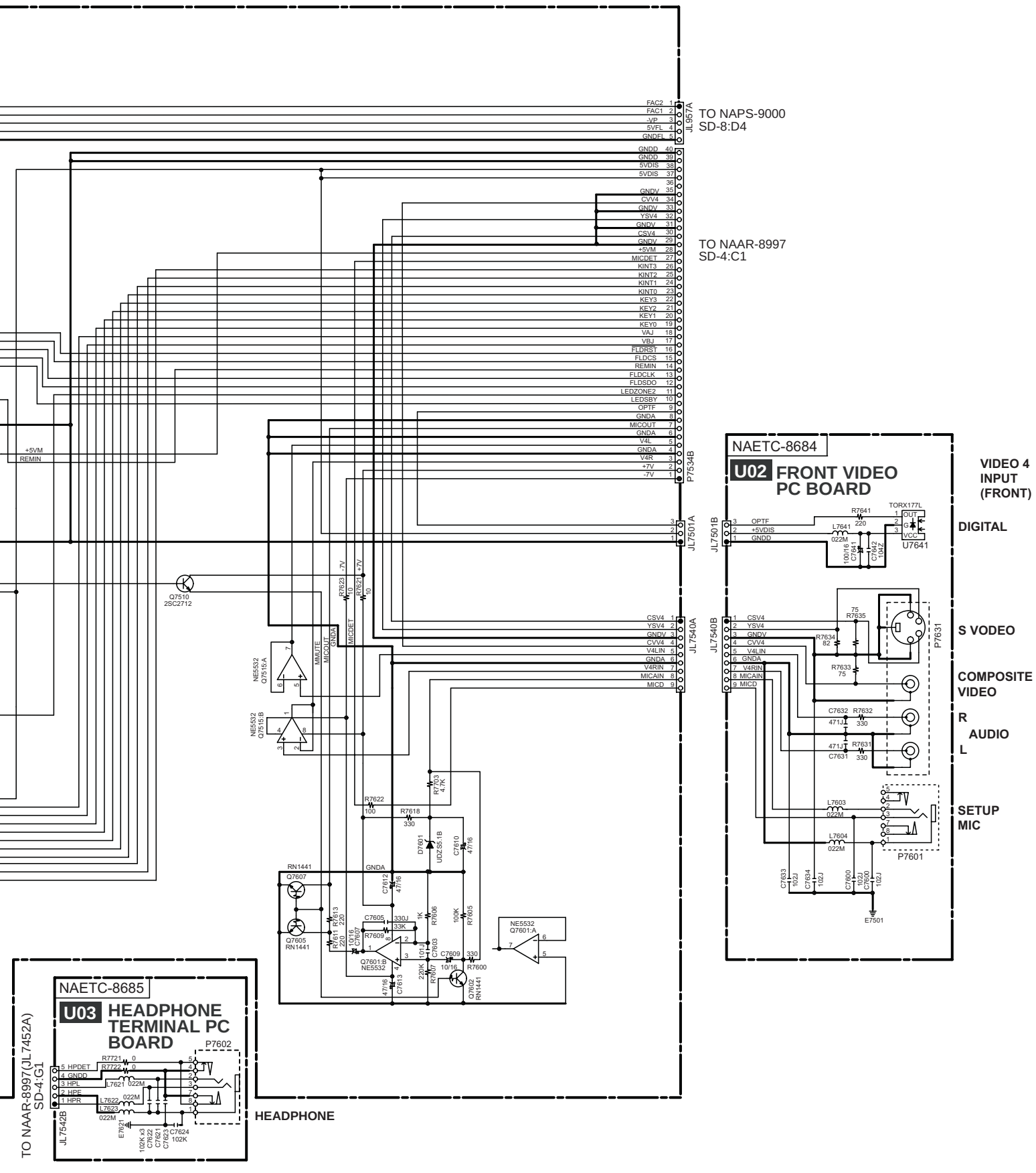
SCHEMATIC DIAGRAM-5 (SD-5)
DISPLAY SECTION





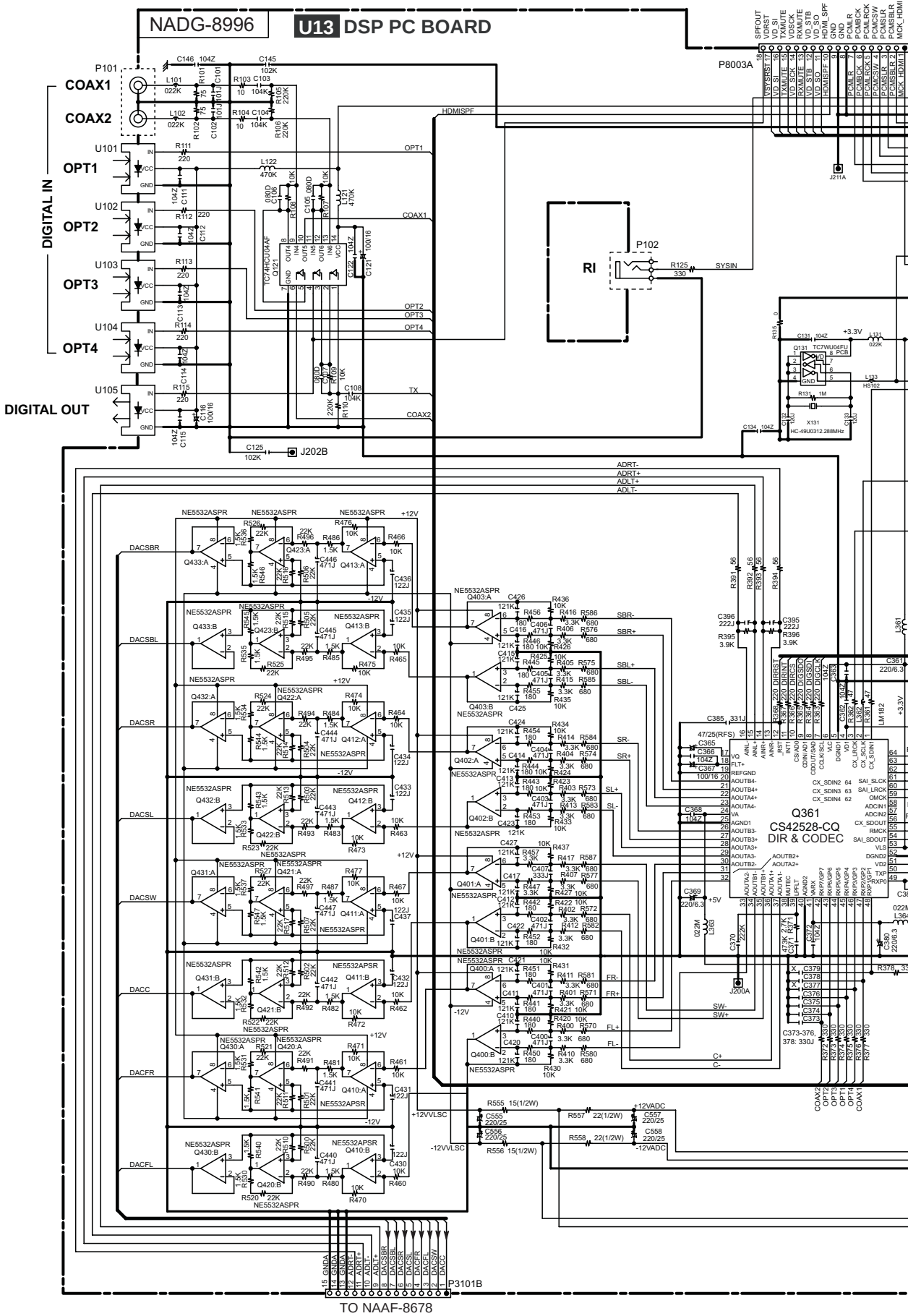


E F G H


TO NAPS-9000
SD-8:D4
TO NAAR-8997
SD-4:C1
JL957A
P7534B
JL7501A
JL7540A
JL7501B
JL7540B
NAETC-8684
U02 FRONT VIDEO PC BOARD
VIDEO 4 INPUT (FRONT)
DIGITAL
S VODEO
COMPOSITE VIDEO
R AUDIO L
SETUP MIC
P7631
P7601
U7641
TORX177L
NAETC-8685
U03 HEADPHONE TERMINAL PC BOARD
P7602
HEADPHONE
TO NAAR-8997(JL7452A)
SD-4:G1
JL7542B
Q7510
2SC2712
NE5532
Q7515:A
NE5532
Q7515:B
RN1441
Q7607
Q7605
RN1441
Q7601:B
NE5532
NE5532
Q7601:A
Q7602
RN1441
D7601
UDZS5.1B
E7501
E7621

SCHEMATIC DIAGRAM-6 (SD-6)

DSP SECTION



E F G H

TO NAVD-8824(1/2)
SD-10:B1

TO FLASH WRITER

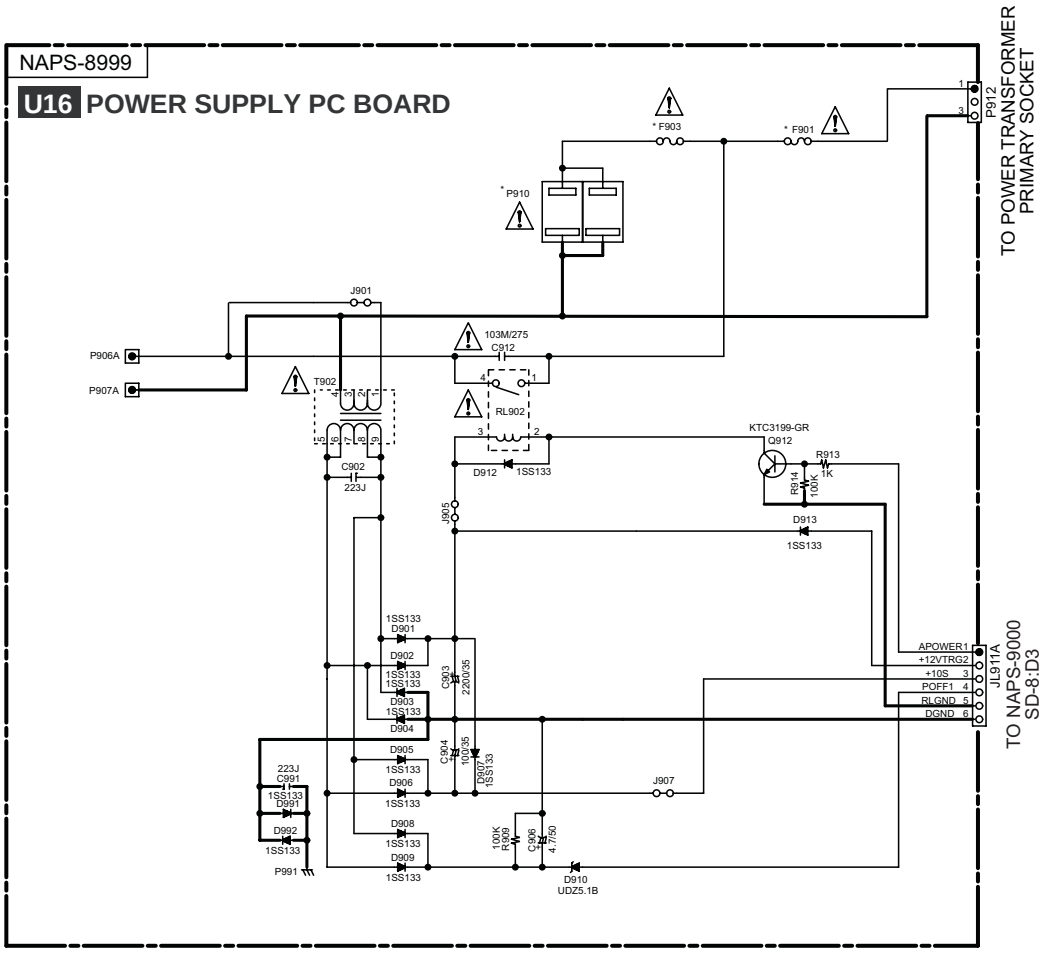
TO NAAR-8997
SD-4:A2

TO NAAR-8997
SD-4:A2

TO NAAF-8678
SD-1:D1

<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

SCHEMATIC DIAGRAM-7 (SD-7)
POWER SUPPLY SECTION



CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

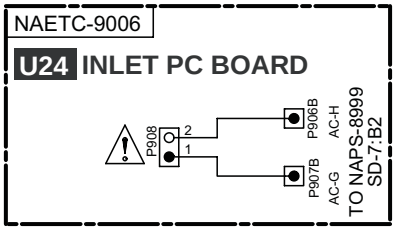
ATTENTIION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE FUSE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MAKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST A LENT, E POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

DD: AC120V~60Hz
PA: AC230-240V~50/60Hz

AC INLET CABLE



Destination table

TYPE	P910	F901	F903	T902	L6600-6606 R6600-6606 R6610-6616	J6600 J6626 J6604 J6625 J6619 J6851 J6620	C6650-6658	C6640-6648
DD	2 out	12A/250V	5A/125V	NPT-1520JQ	×	o	×	×
PA	1 out	T5AL250V	T2.5AL250V	NPT-1519GQ	o	×	102J	103J

NOTE
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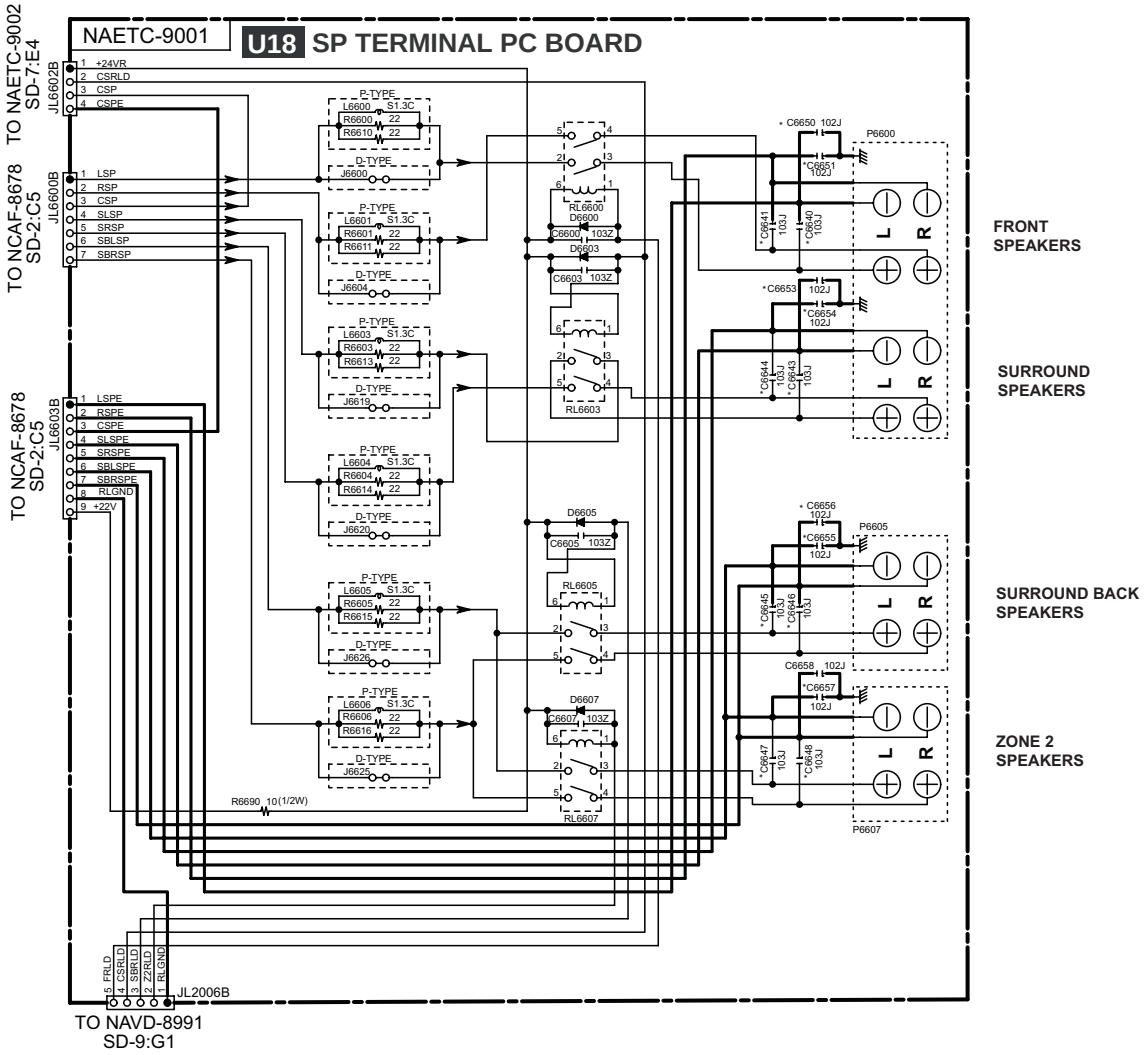
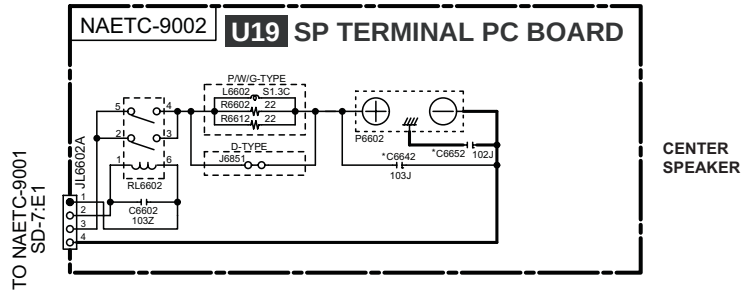
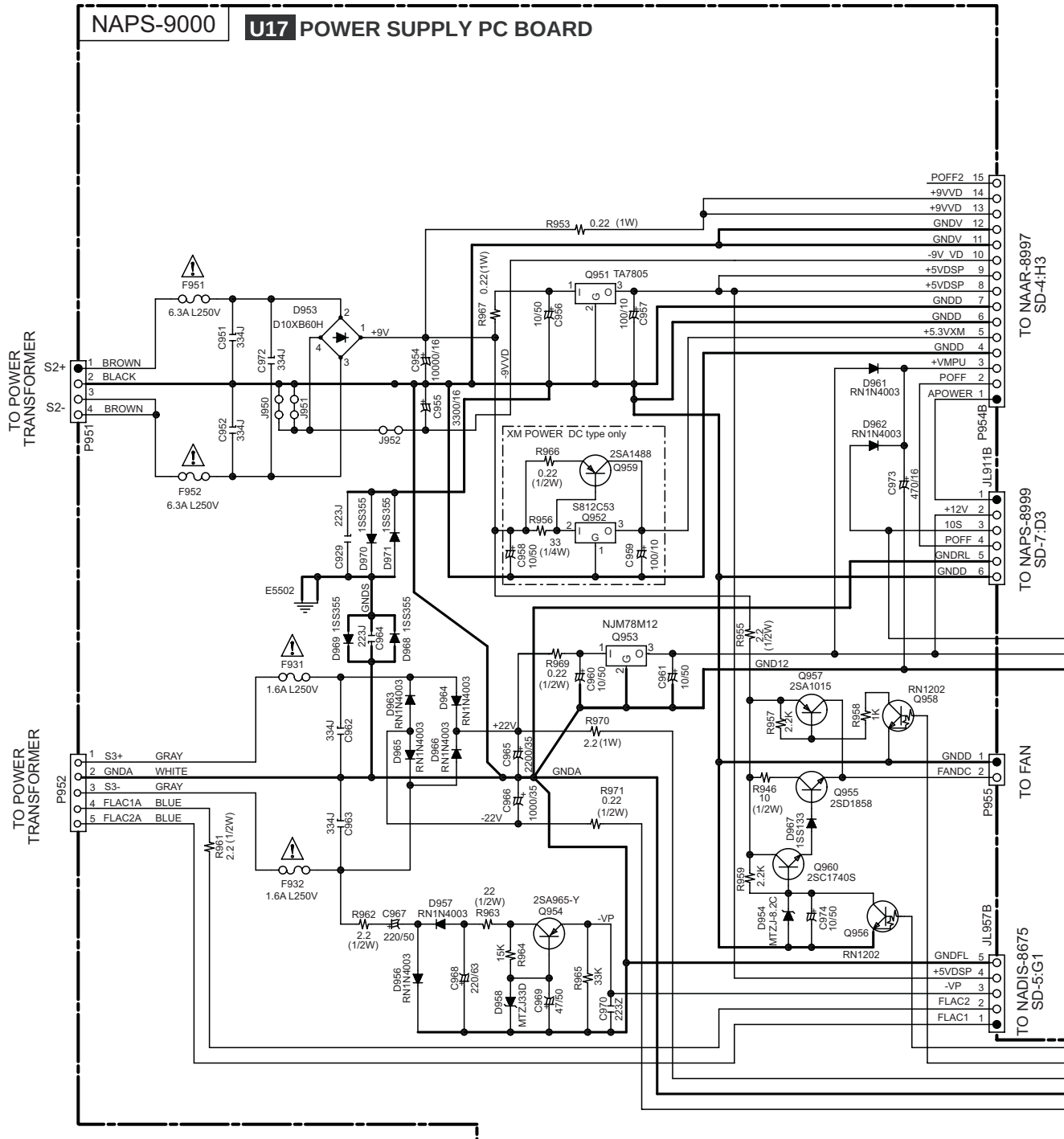
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

E F G H


NAETC-9001
U18 SP TERMINAL PC BOARD
TO NAETC-9002 SD-7:E4
JL6602B
1 +24VR
2 CSRLD
3 CSP
4 CSPE
TO NCAF-8678 SD-2:C5
JL6600B
1 LSP
2 RSP
3 CSP
4 SLSP
5 SRSP
6 SBLSP
7 SBRSP
TO NCAF-8678 SD-2:C5
JL6603B
1 LSPE
2 RSPE
3 CSPE
4 SLSPE
5 SRSPE
6 SBLSPE
7 SBRSPE
8 RLGND
9 +22V
P-TYPE
D-TYPE
L6600 S1.3C
R6600 22
R6610 22
J6600
L6601 S1.3C
R6601 22
R6611 22
J6604
L6603 S1.3C
R6603 22
R6613 22
J6619
L6604 S1.3C
R6604 22
R6614 22
J6620
L6605 S1.3C
R6605 22
R6615 22
J6626
L6606 S1.3C
R6606 22
R6616 22
J6625
RL6600
RL6603
RL6605
RL6607
D6600
D6603
D6605
D6607
C6600 103Z
C6603 103Z
C6605 103Z
C6607 103Z
R6690 10(1/2W)
* C6650 102J
*C6651 102J
P6600
*C6653 102J
*C6654 102J
*C6656 102J
*C6655 102J
P6605
C6658 102J
*C6657 102J
P6607
*C6641 103J
*C6640 103J
*C6644 103J
*C6643 103J
*C6645 103J
*C6646 103J
*C6647 103J
*C6648 103J
L
R
FRONT SPEAKERS
SURROUND SPEAKERS
SURROUND BACK SPEAKERS
ZONE 2 SPEAKERS
5 FRLD
4 CSRLD
3 SBRLD
2 ZZRLD
1 RLGND
JL2006B
TO NAVD-8991 SD-9:G1


NAETC-9002
U19 SP TERMINAL PC BOARD
TO NAETC-9001 SD-7:E1
JL6602A
1
2
3
4
P/W/G-TYPE
D-TYPE
L6602 S1.3C
R6602 22
R6612 22
J6851
RL6602
C6602 103Z
P6602
*C6642 103J
*C6652 102J
CENTER SPEAKER

SCHEMATIC DIAGRAM-8 (SD-8)
POWER SUPPLY SECTION



<Note>
SD-x:XY is short for Shcematic Diagram-x and
each socket's location, X=A to H, Y=1 to 5.

NOTE

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- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
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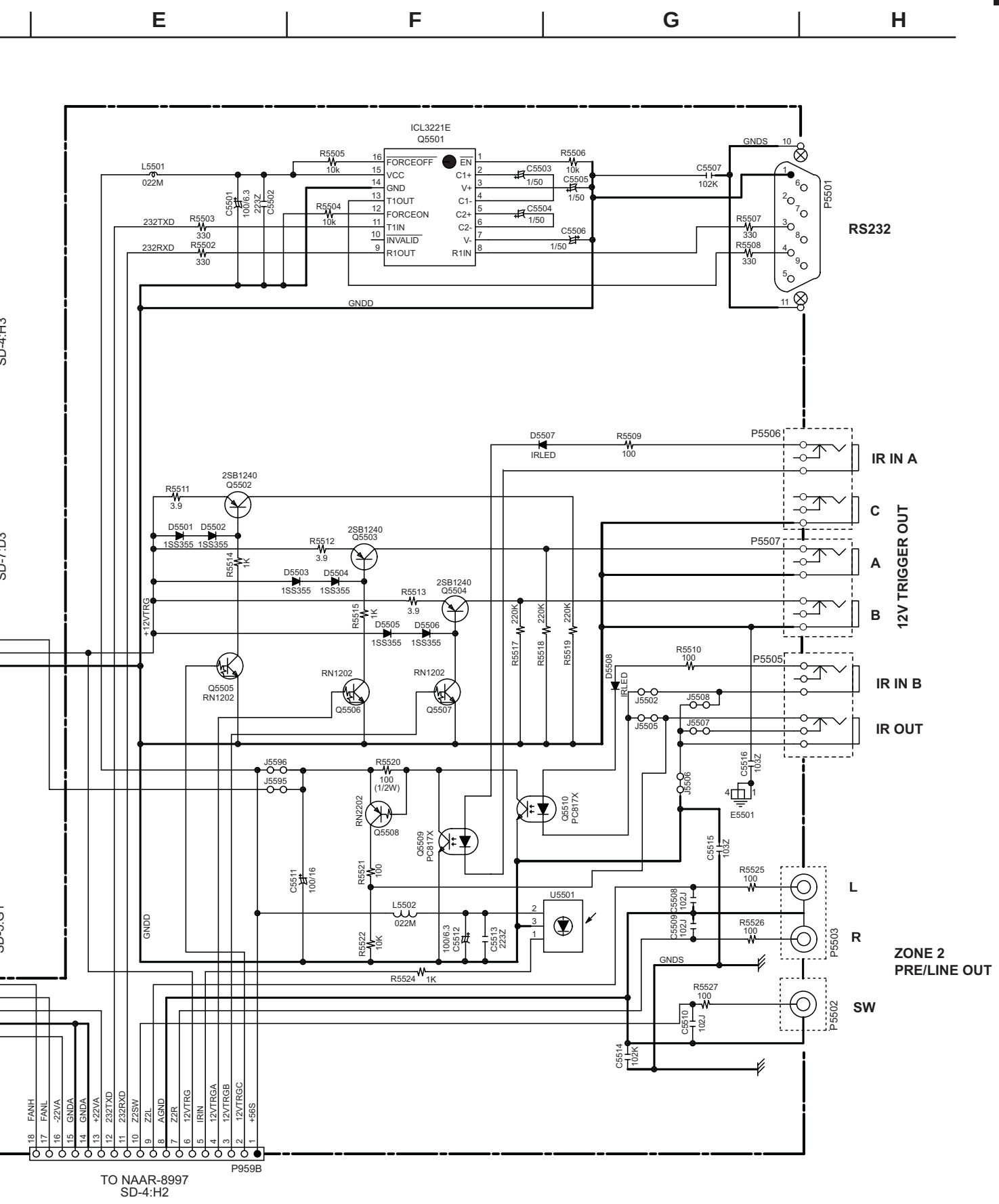
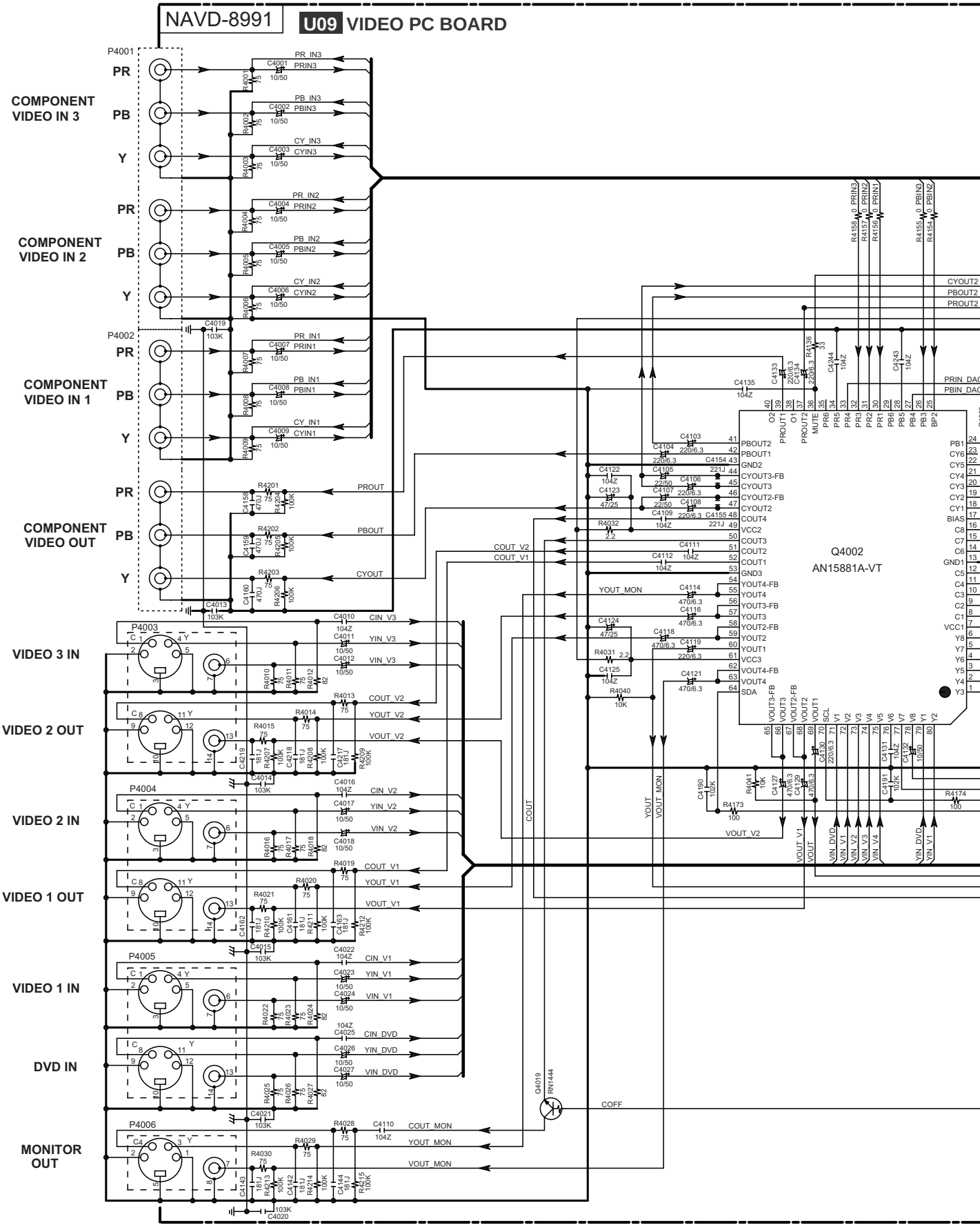
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊡⊡⊡ ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.


E
F
G
H
ICL3221E
Q5501
FORCEOFF
VCC
GND
T1OUT
FORCEON
T1IN
INVALID
R1OUT
EN
C1+
V+
C1-
C2+
C2-
V-
R1IN
L5501
022M
R5505
10k
R5504
10k
R5503
330
R5502
330
232TXD
232RXD
C5501
100/6.3
C5502
223Z
C5503
1/50
C5504
1/50
C5505
1/50
C5506
1/50
R5506
10k
C5507
102K
GNDS
P5501
RS232
R5507
330
R5508
330
GNDD
D5507
IRLED
R5509
100
P5506
IR IN A
C
P5507
A
B
12V TRIGGER OUT
2SB1240
Q5502
R5511
3.9
D5501
D5502
1SS355
1SS355
R5514
1K
2SB1240
Q5503
R5512
3.9
D5503
D5504
1SS355
1SS355
2SB1240
Q5504
R5513
3.9
R5515
1K
D5505
D5506
1SS355
1SS355
+12VTRG
220K
220K
220K
R5517
R5518
R5519
Q5505
RN1202
RN1202
Q5506
RN1202
Q5507
D5508
IRLED
R5510
100
P5505
IR IN B
IR OUT
J5502
J5505
J5508
J5507
J5596
J5595
R5520
100
(1/2W)
RN2202
Q5508
Q5509
PC817X
Q5510
PC817X
J5506
C5516
103Z
E5501
C5515
103Z
C5511
100/16
R5521
100
L5502
022M
U5501
R5525
100
L
C5508
102J
C5509
102J
R5526
100
R
P5503
ZONE 2
PRE/LINE OUT
R5522
10K
100/6.3
C5512
C5513
223Z
GNDS
R5524
1K
R5527
100
SW
C5510
102J
P5502
C5514
102K
FANH
FANL
-22VA
GNDA
GNDA
+22VA
232TXD
232RXD
Z2SW
Z2L
AGND
Z2R
12VTRG
IRIN
12VTRGA
12VTRGB
12VTRGC
+56S
P959B
TO NAAR-8997
SD-4:H2
SD-4:H3
SD-7:D3

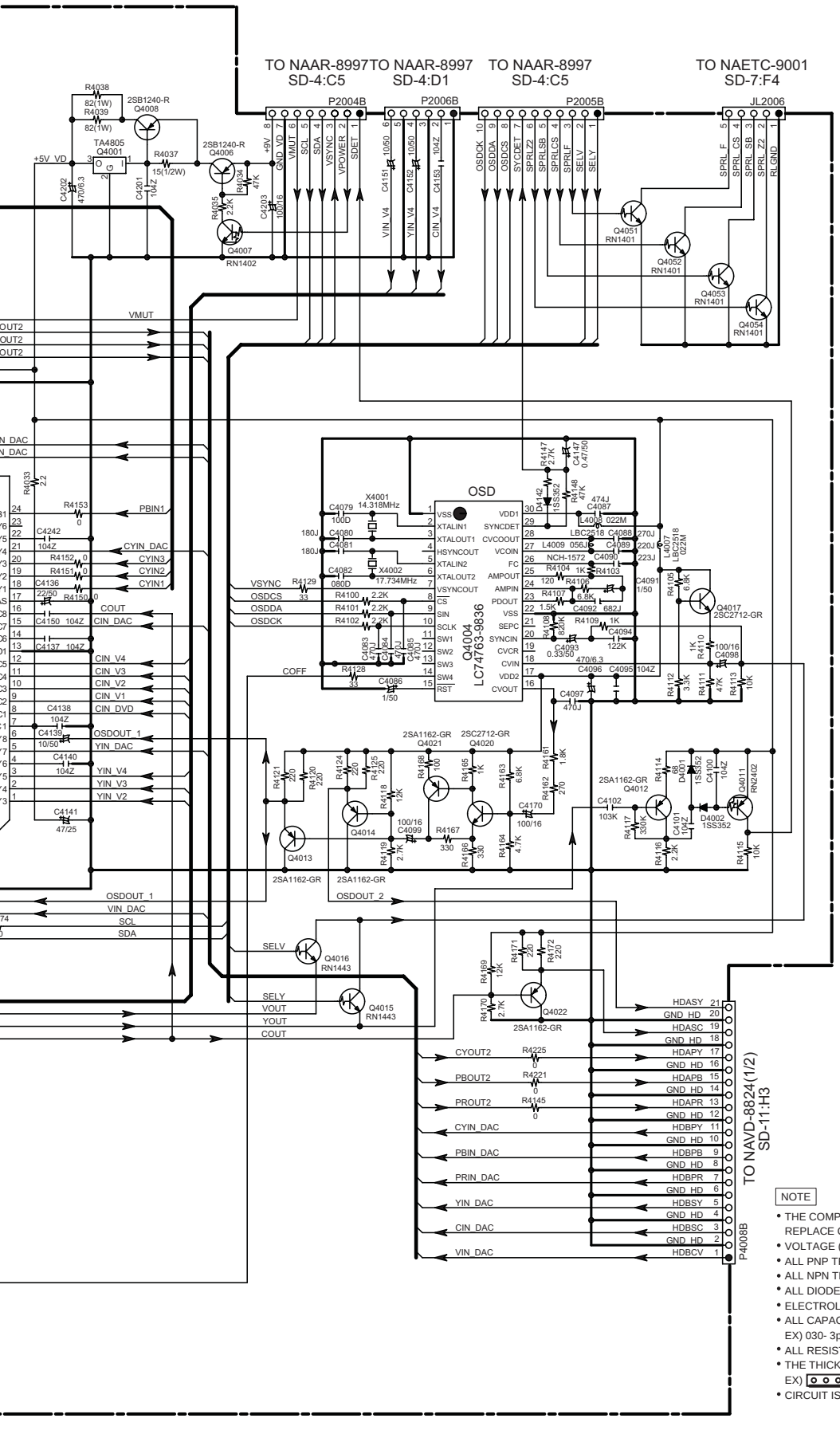
SCHEMATIC DIAGRAM-9 (SD-9)

VIDEO SECTION

NAVD-8991 **U09** VIDEO PC BOARD



E F G H



<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

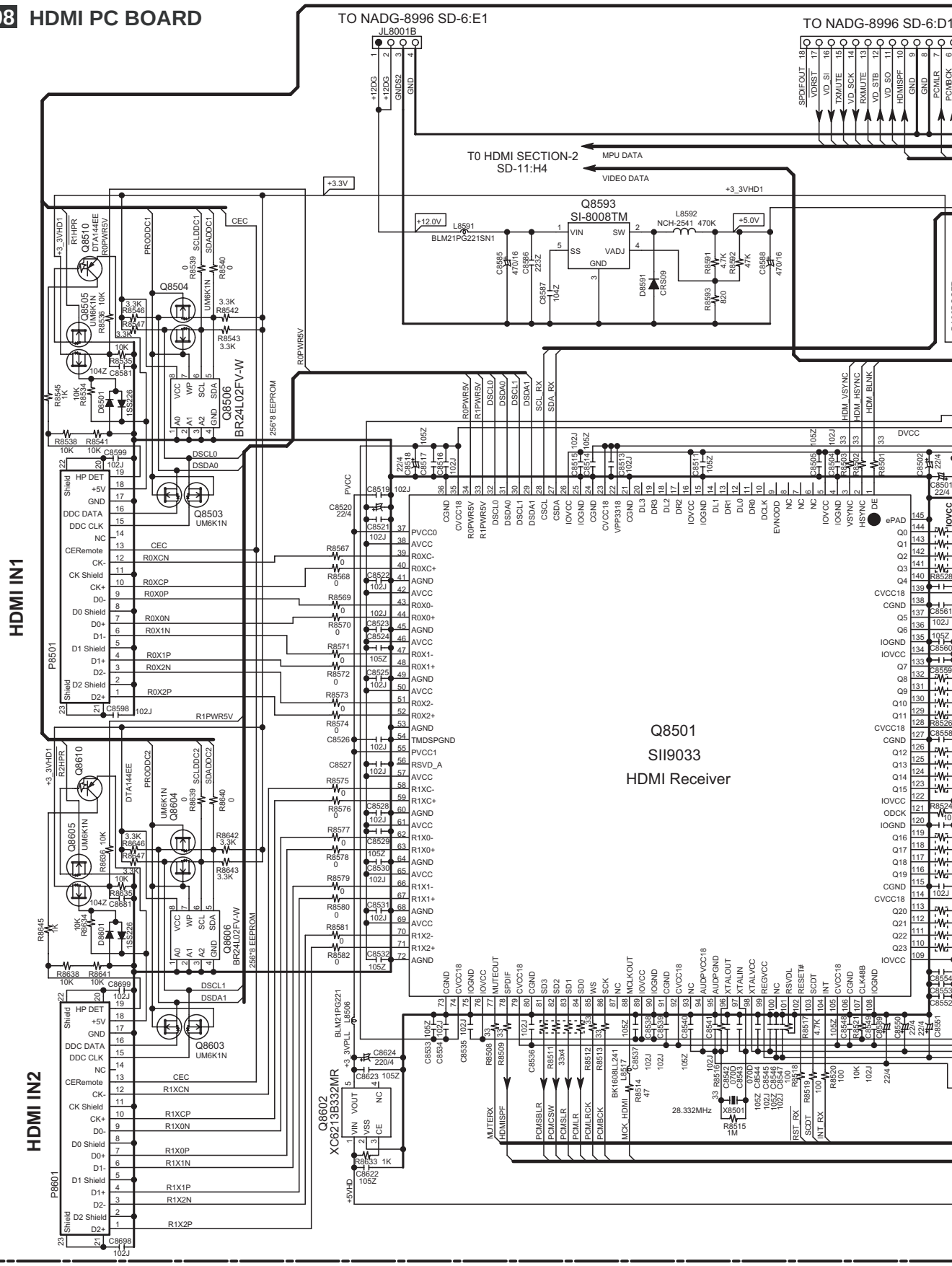
SCHEMATIC DIAGRAM-10(SD-10)

HDMI SECTION-1

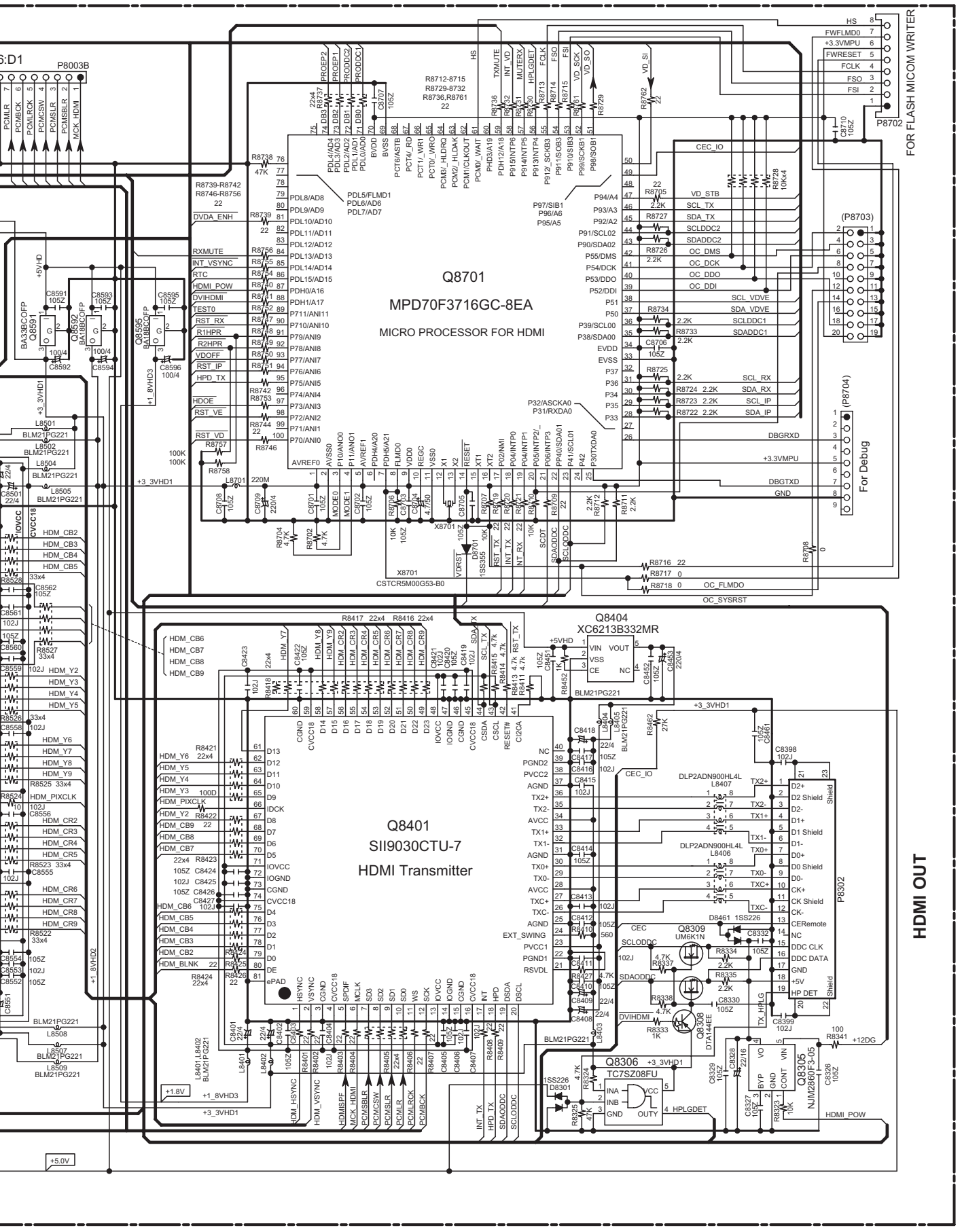
<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NAVD-8824(1/2)

U08 HDMI PC BOARD



E F G H


Q8701
MPD70F3716GC-8EA
MICRO PROCESSOR FOR HDMI
Q8401
SII9030CTU-7
HDMI Transmitter
Q8404
XC6213B332MR
Q8306
TC7SZ08FU
Q8305
NJM2860F3-05
Q8309
UM6K1N
Q8308
DTA144EE
P8003B
P8702
(P8703)
(P8704)
For Debug
P8302
HDMI OUT
FOR FLASH MICOM WRITER
X8701
CSTCR5M00G53-B0
D8301
1SS226
D8461
1SS226
DBGRXD
DBGTXD
GND
+3.3VMPU
VD_STB
SCL_TX
SDA_TX
SCLDDC2
SDADDC2
OC_DMS
OC_DCK
OC_DDO
OC_DDI
SCL_VDVE
SDA_VDVE
SCLDDC1
SDADDC1
SCL_RX
SDA_RX
SCL_IP
SDA_IP
CEC_IO
OC_SYSRST
OC_FLMDO
HDMI_POW
+5VHD
+3_3VHD1
+1_8VHD3
+1_8VHD2
+1.8V
+5.0V
+12DG

SCHEMATIC DIAGRAM-11(SD-11)

HDMI SECTION-2

<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NAVD-8824(2/2)

U08 HDMI PC BOARD

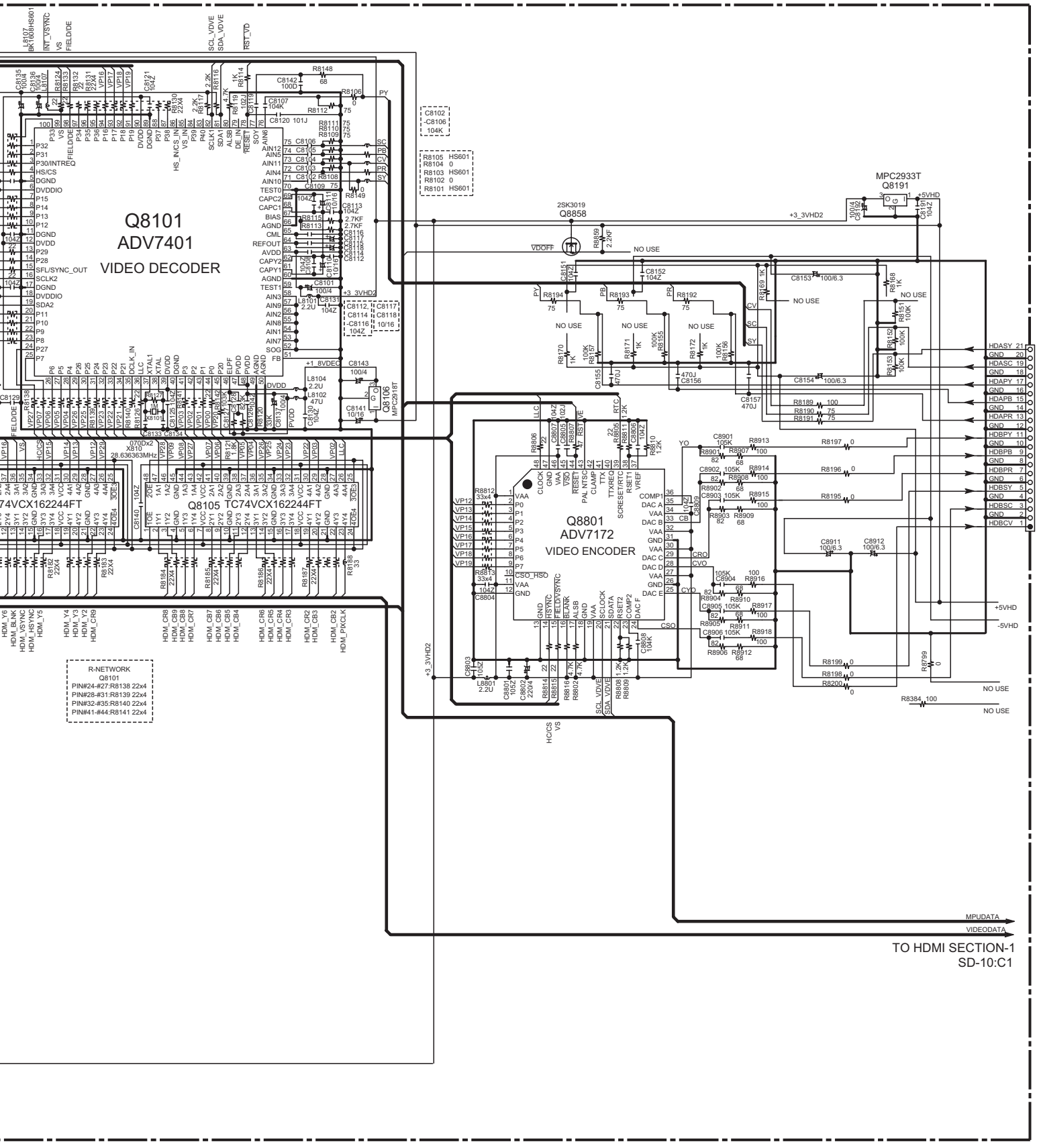
Q8001
SII504
I/P CONVERTER

Q8003 IC42S3220L-7TG SDRAM2X64

Q8002 MC504

Q8104 TC74VC

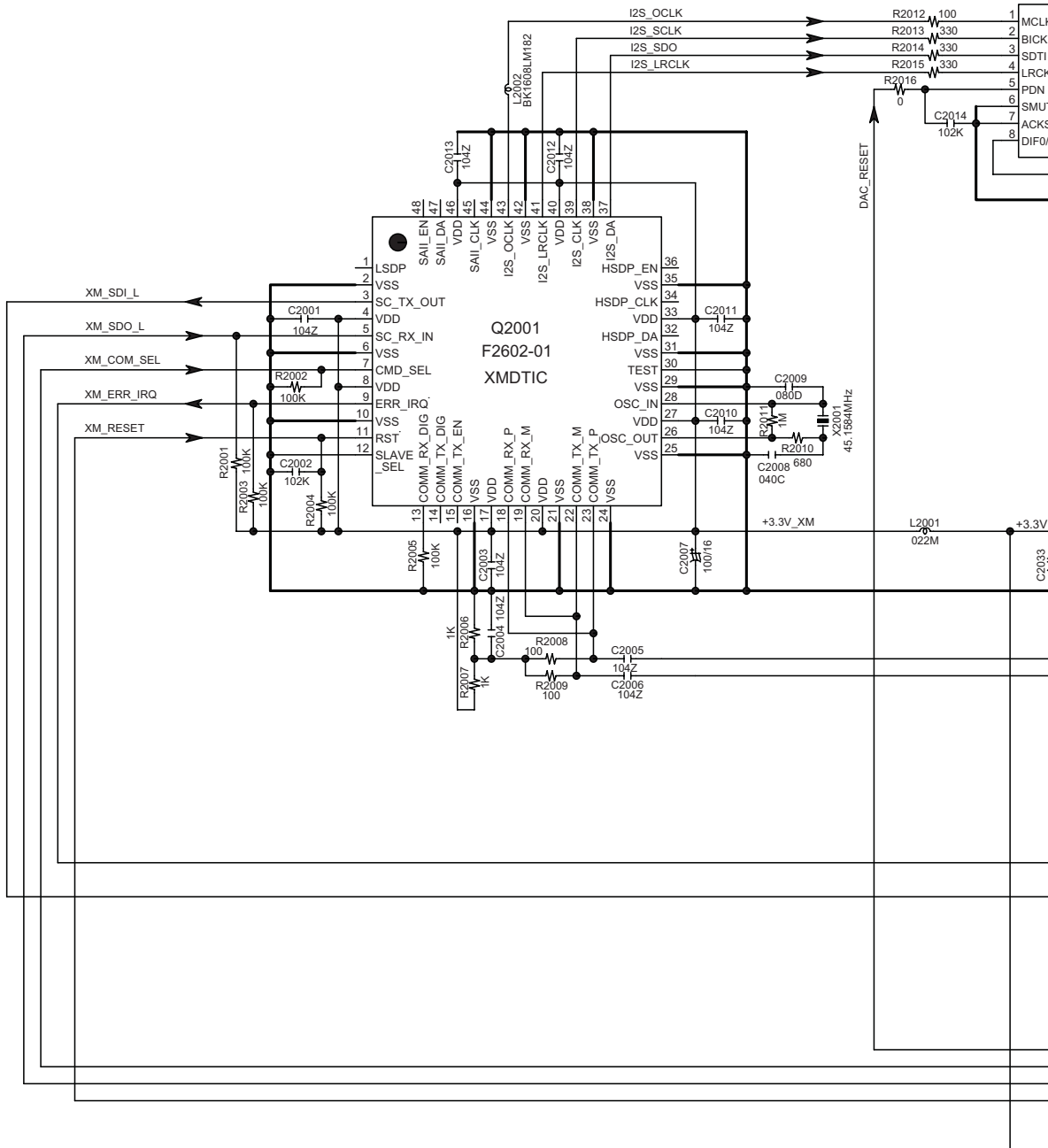
E F G H


Q8101
ADV7401
VIDEO DECODER
Q8801
ADV7172
VIDEO ENCODER
Q8105 TC74VCX162244FT
MPC2933T
Q8191
2SK3019
Q8858
Q8106
MIP2916T
X810
28.636363MHz
R-NETWORK
Q8101
PIN#24-#27:R8138 22x4
PIN#28-#31:R8139 22x4
PIN#32-#35:R8140 22x4
PIN#41-#44:R8141 22x4
TO NAVD-8991 SD-9:G4
P4008A
TO HDMI SECTION-1
SD-10:C1
MPUDATA
VIDEODATA
+3_3VHD2
+5VHD
-5VHD
NO USE

SCHEMATIC DIAGRAM-12 (SD-12)
XM SECTION

NARF-8994

U12 XM PC BOARD



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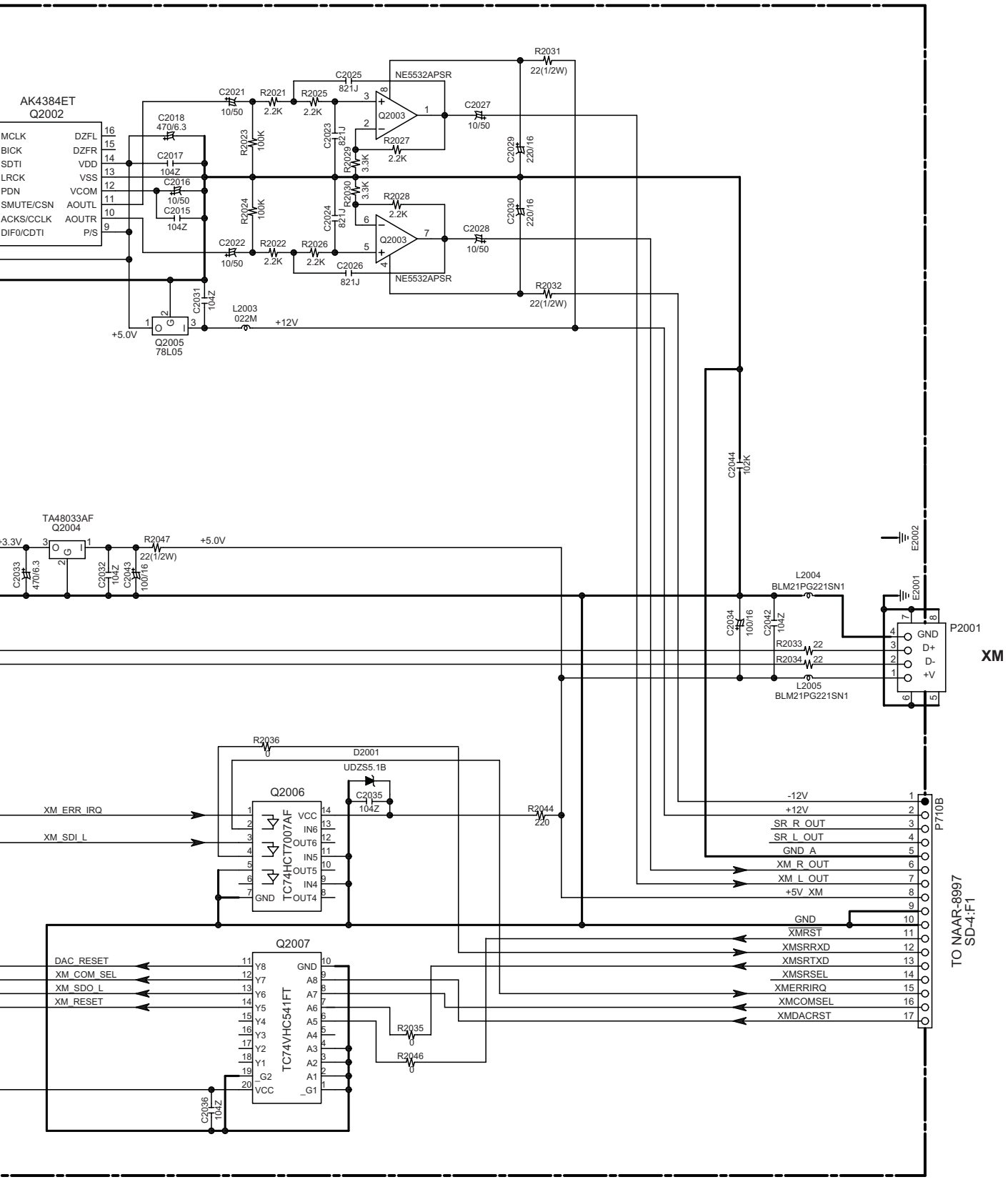
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊙⊙⊙ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

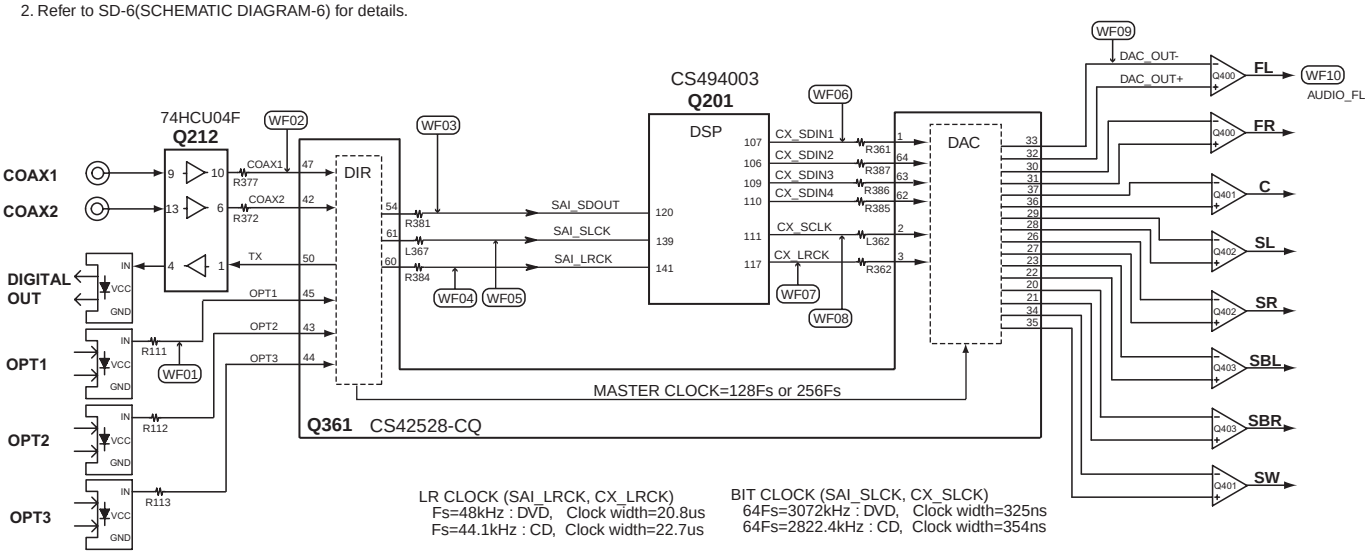
E F G H

<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

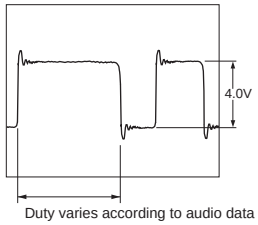


SCHEMATIC DIAGRAM-13 (SD-13)
DIGITAL AUDIO WAVE FORM SECTION

NOTE:
1. (WF01) is short for (WaveForm01).
2. Refer to SD-6(SCHEMATIC DIAGRAM-6) for details.

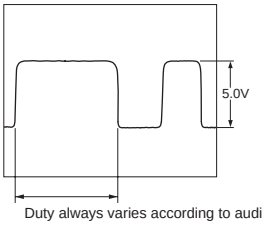


(WF01) OPT1



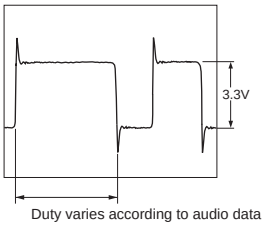
Duty varies according to audio data

(WF02) COAX1



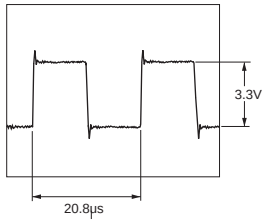
Duty always varies according to audio data

(WF03) SAI_SDOUT

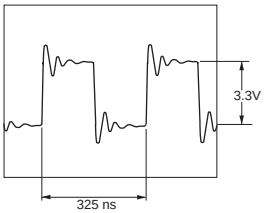


Duty varies according to audio data

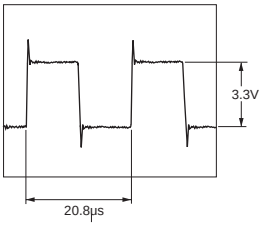
(WF04) SAI_LRCK



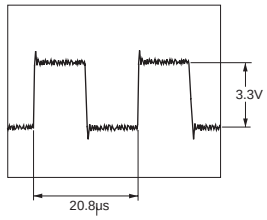
(WF05) SAI_SLCK



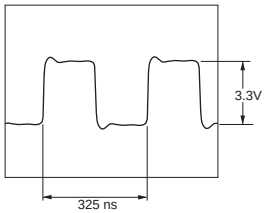
(WF06) CX_SDIN1



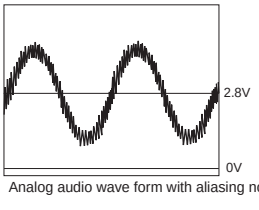
(WF07) CX_LRCK



(WF08) CX_SCLK

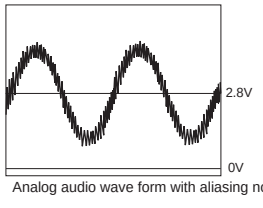


(WF09) DAC_OUT-



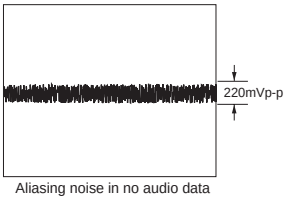
Analog audio wave form with aliasing noise

(WF10) AUDIO_FL



Analog audio wave form with aliasing noise

(WF10) AUDIO_FL



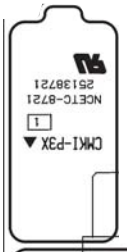
Aliasing noise in no audio data

PRINTED CIRCUIT BOARD VIEWS-1

U26

HOLDER PC BOARD (NAETC-8721)

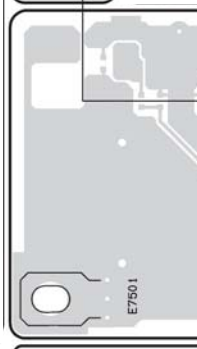
Side-A



U02

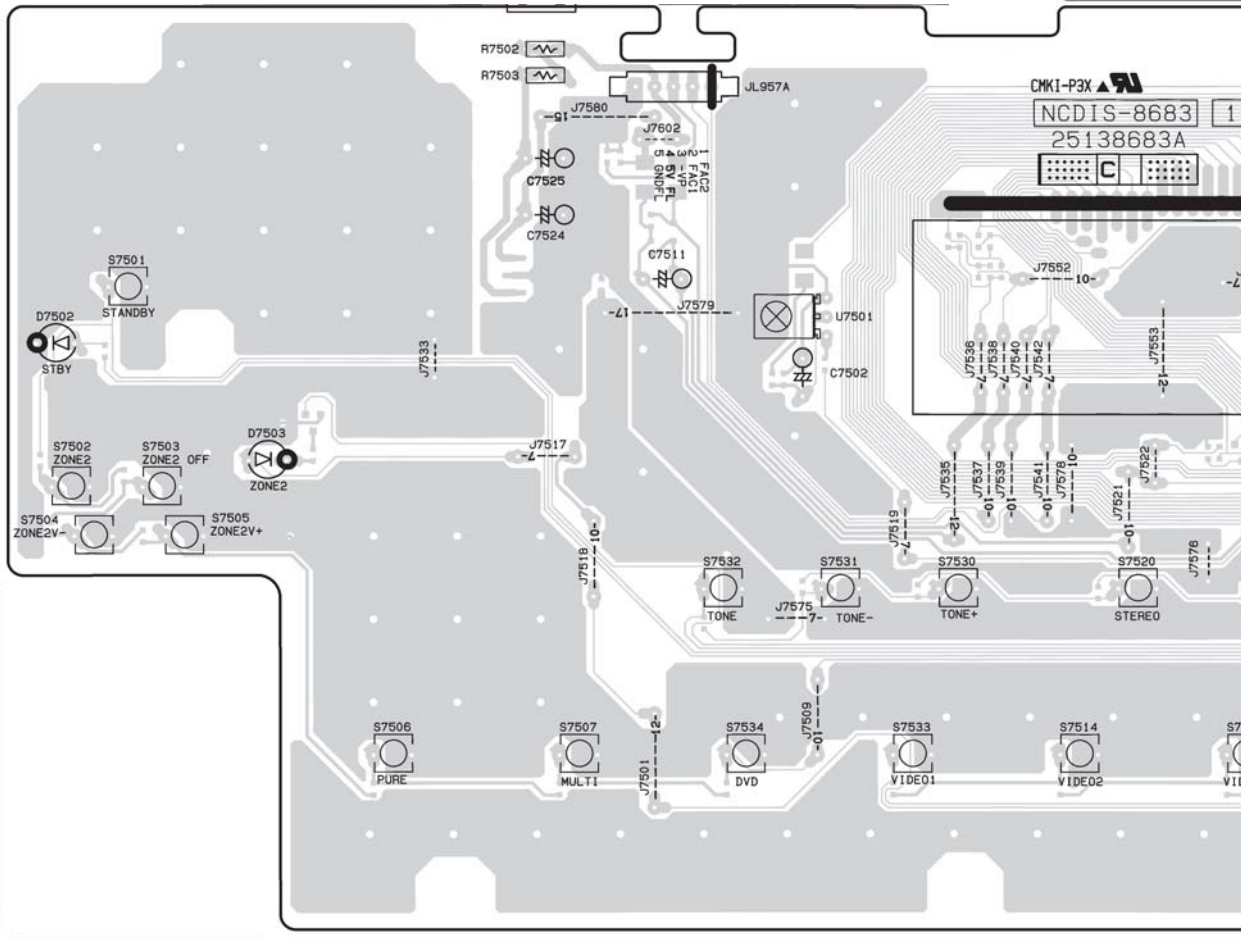
FRONT VIDEO PC BOARD (NAETC-8684)

Side-A



U01 **DISPLAY PC BOARD (NADIS-8683)**

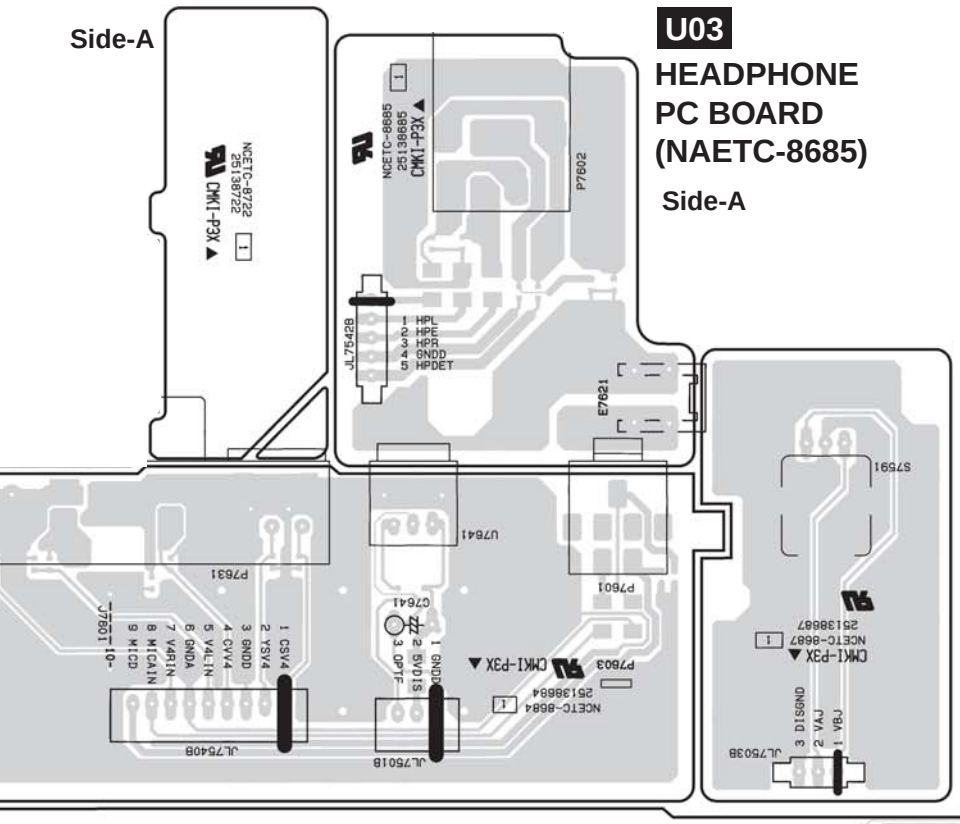
Side-A



E F G H

U27 HOLDER PC BOARD (NAETC-8722)

Side-A

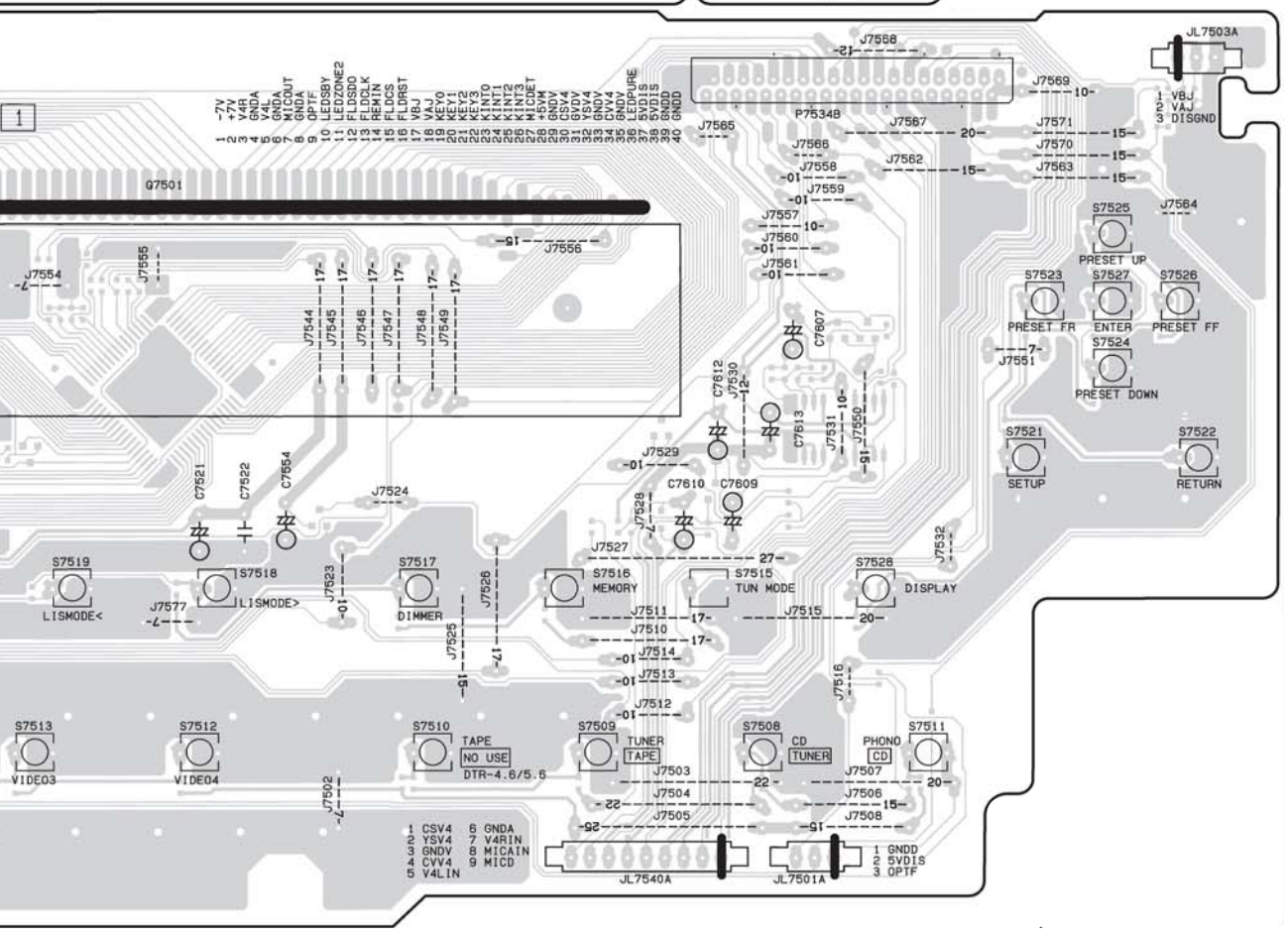


U03 HEADPHONE PC BOARD (NAETC-8685)

Side-A

U25 VOLUME PC BOARD (NAETC-8687)

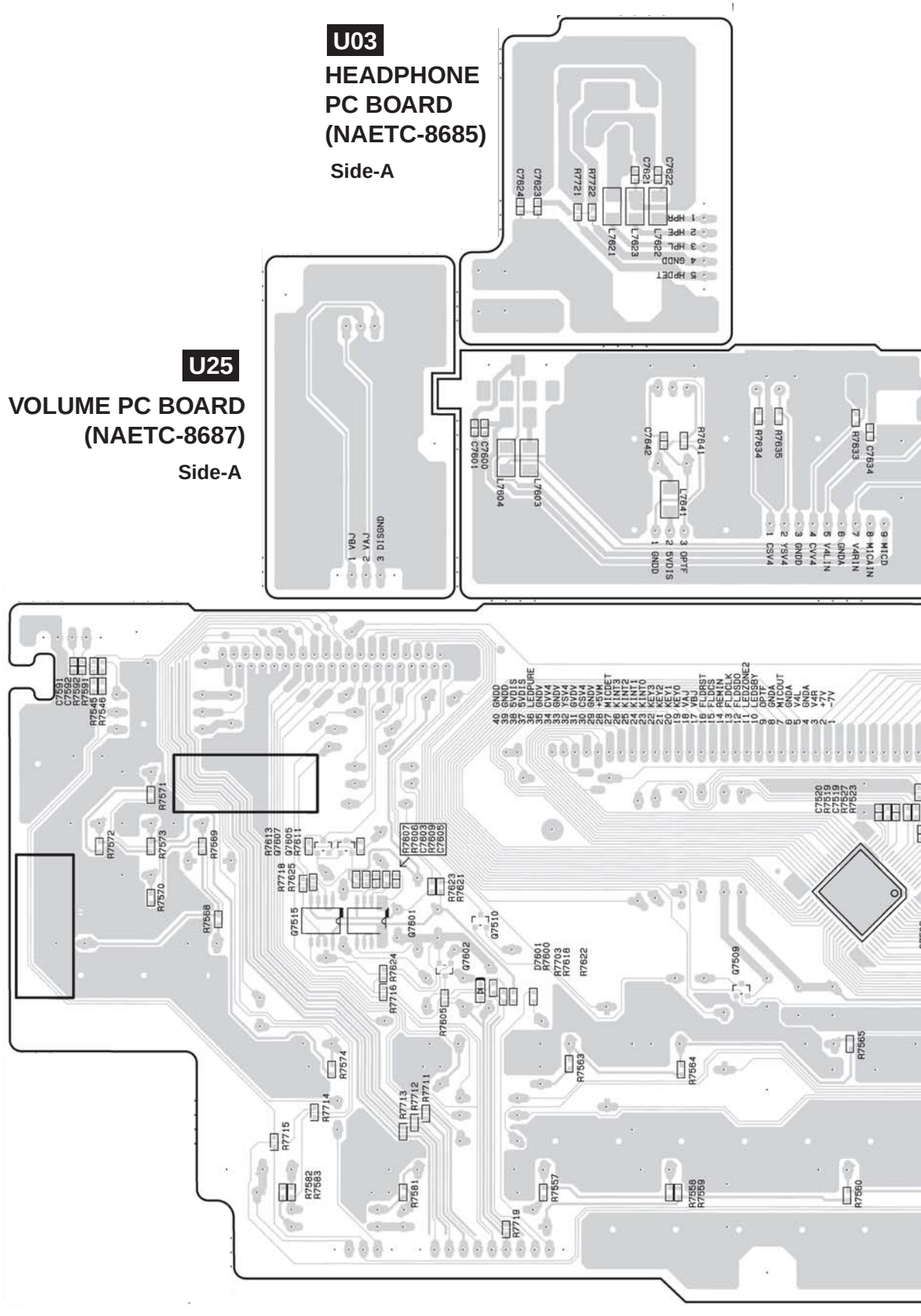
Side-A



PRINTED CIRCUIT BOARD VIEWS-2

U03
HEADPHONE PC BOARD (NAETC-8685)
Side-A

U25
VOLUME PC BOARD (NAETC-8687)
Side-A

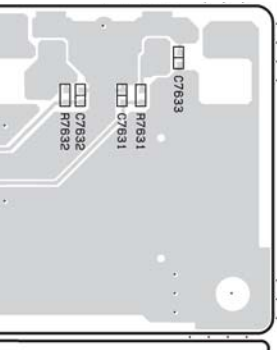


E F G H

U02

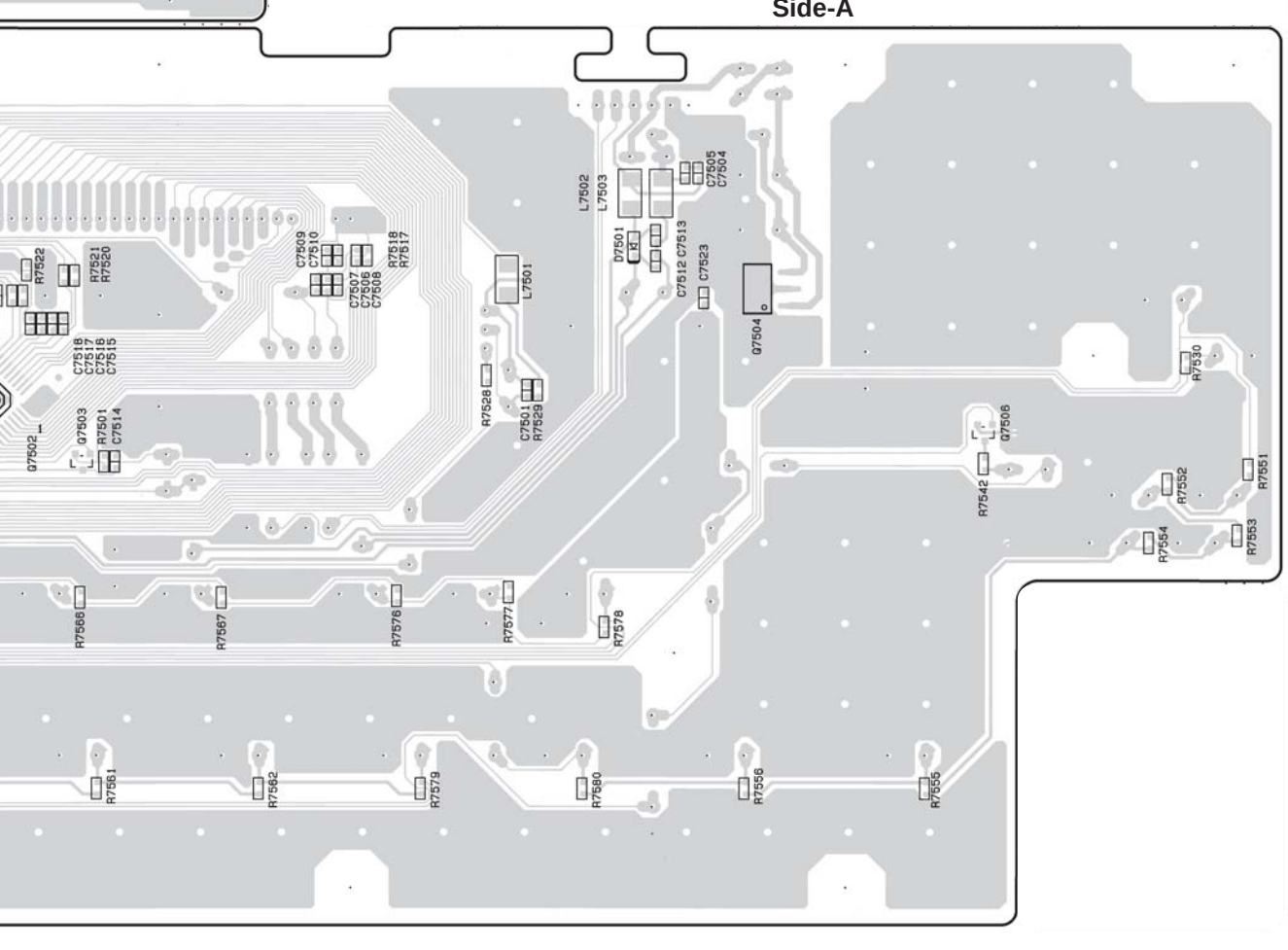
FRONT VIDEO PC BOARD (NAETC-8684)

Side-A



U01 **DISPLAY PC BOARD (NADIS-8683)**

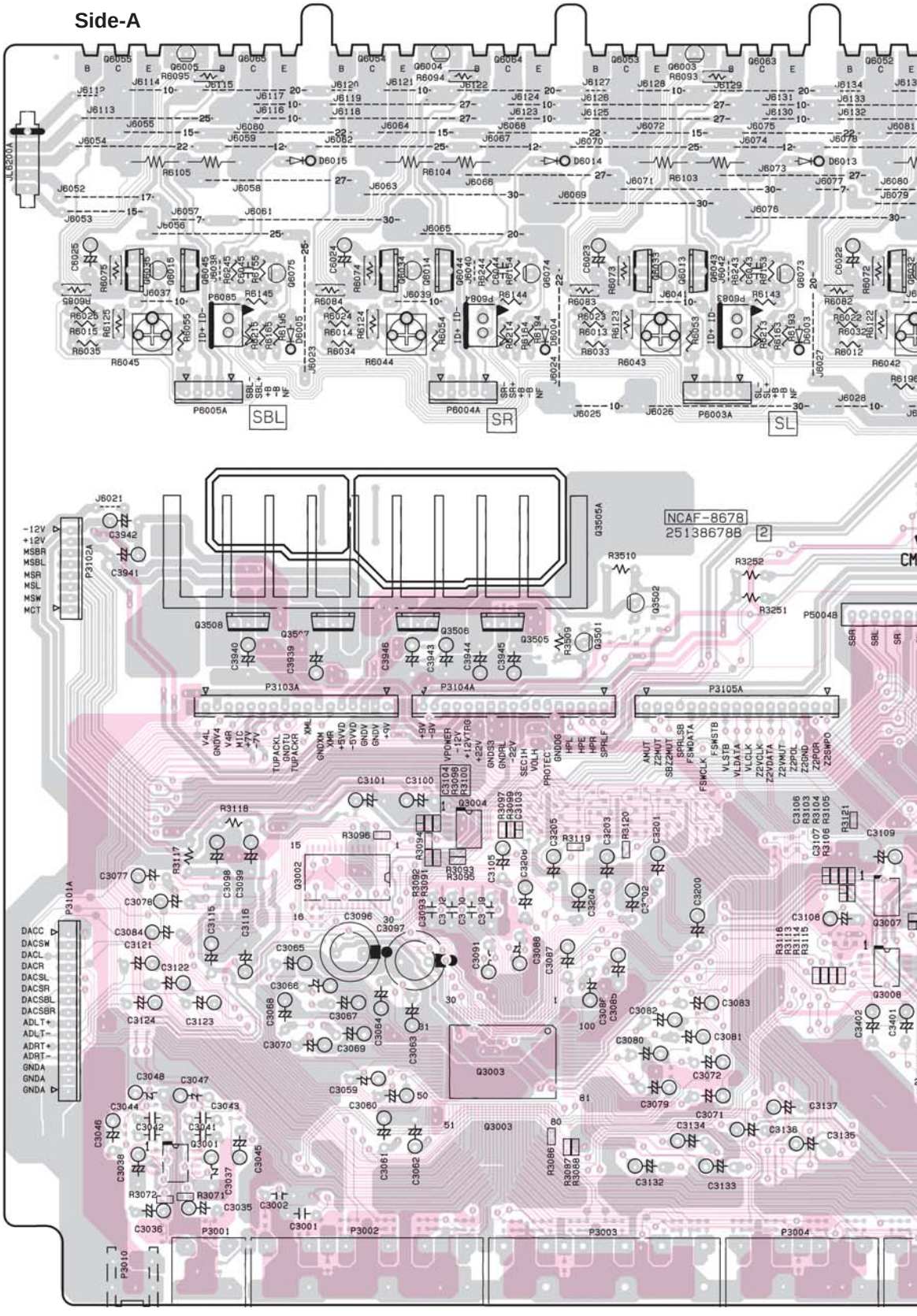
Side-A



PRINTED CIRCUIT BOARD VIEWS-3

U04 AMPLIFIER PC BOARD (NAAF-8678)

Side-A



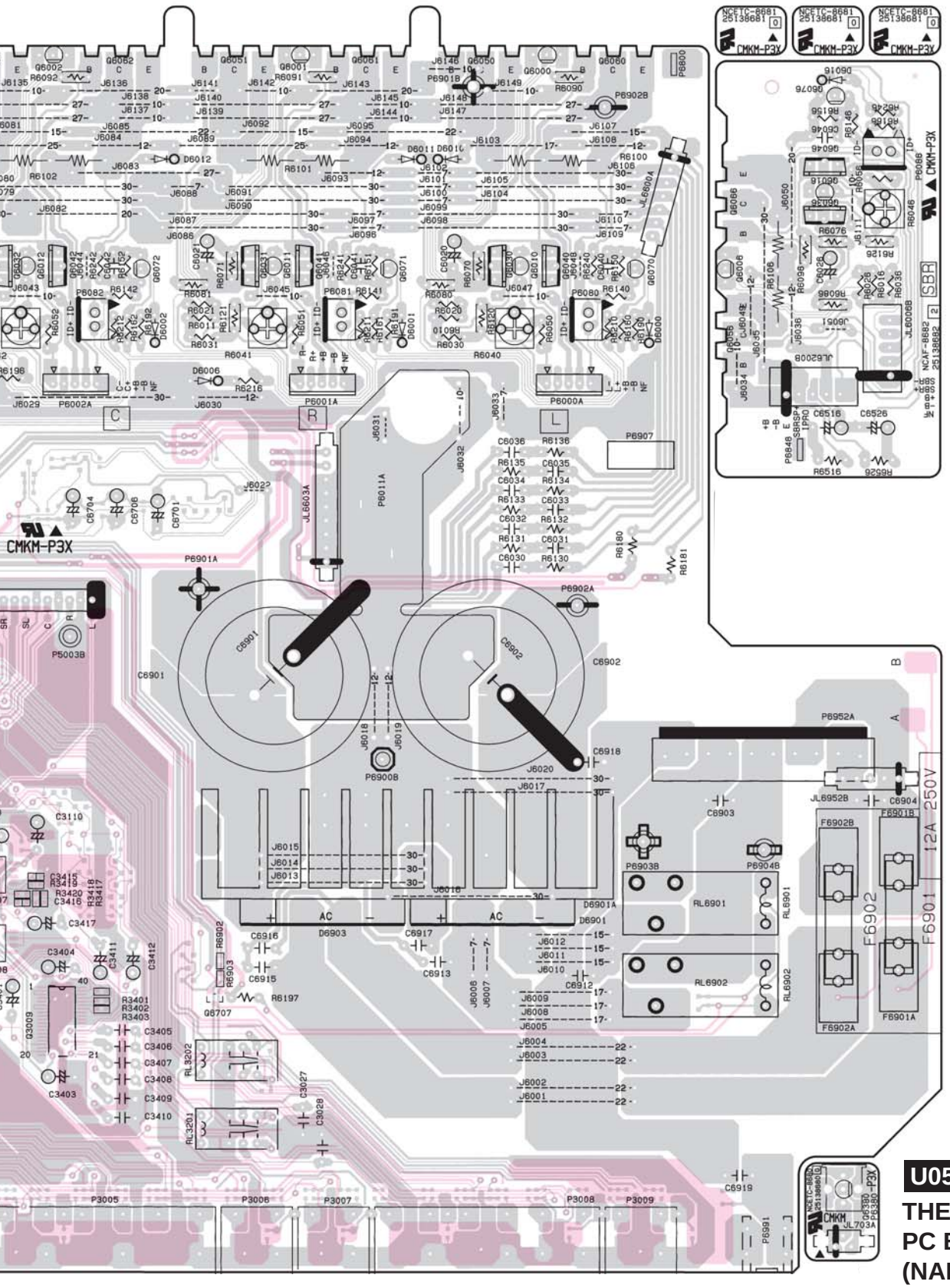
E F G H

U06 HOLDER PC BOARD (NAETC-8681)

Side-A

U07 SURROUND BACK AMPLIFIER PC BOARD (NAAF-8682)

Side-A



U05 THERMAL DETECTOR PC BOARD (NAETC-8680)

Side-A

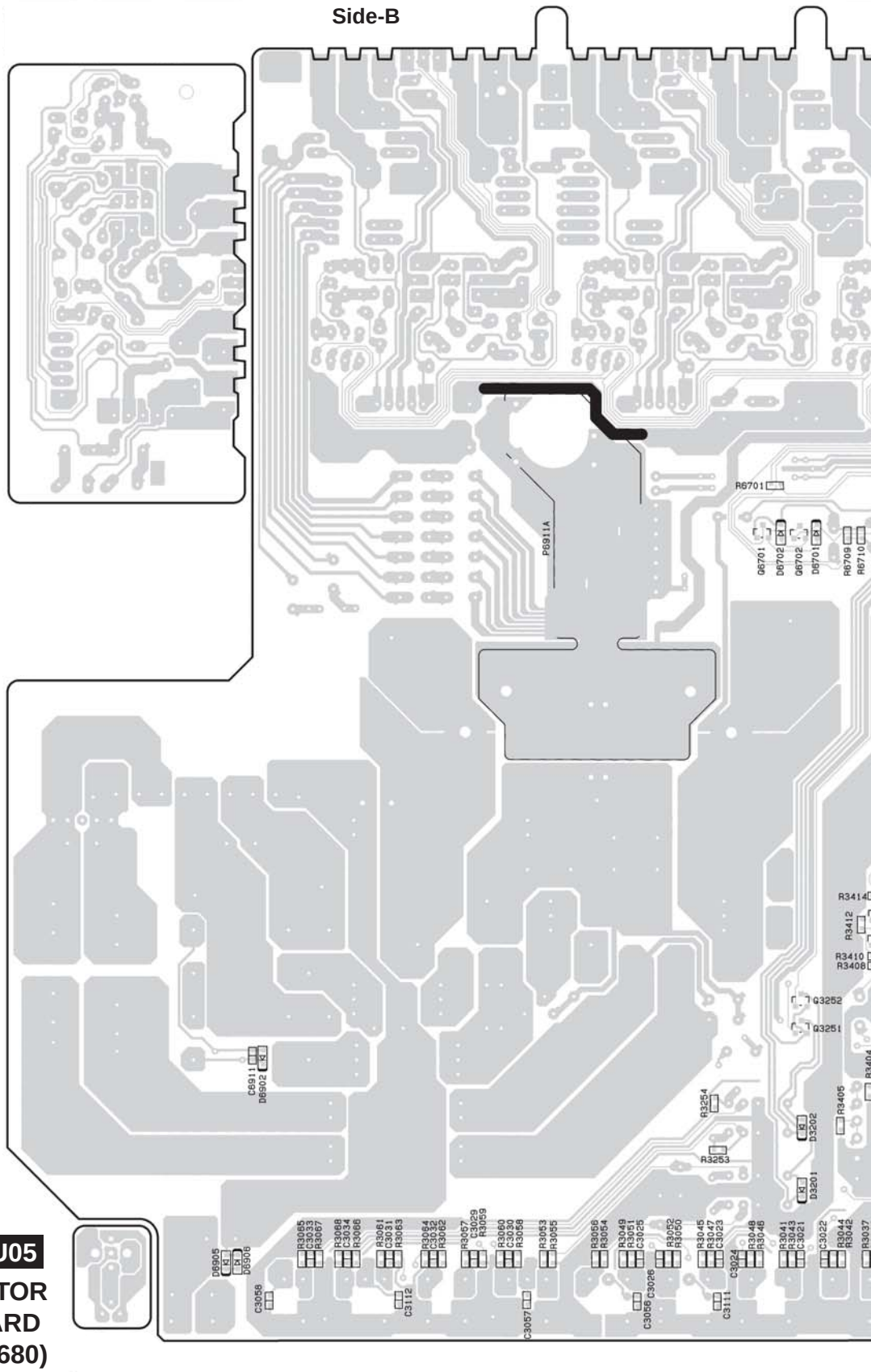
A B C D

1 2 3 4 5

PRINTED CIRCUIT BOARD VIEWS-4

U04 AMPLIFIER PC BOARD (NAAF-8678)

Side-B



U07

SURROUND BACK AMPLIFIER PC BOARD (NAAF-8682)

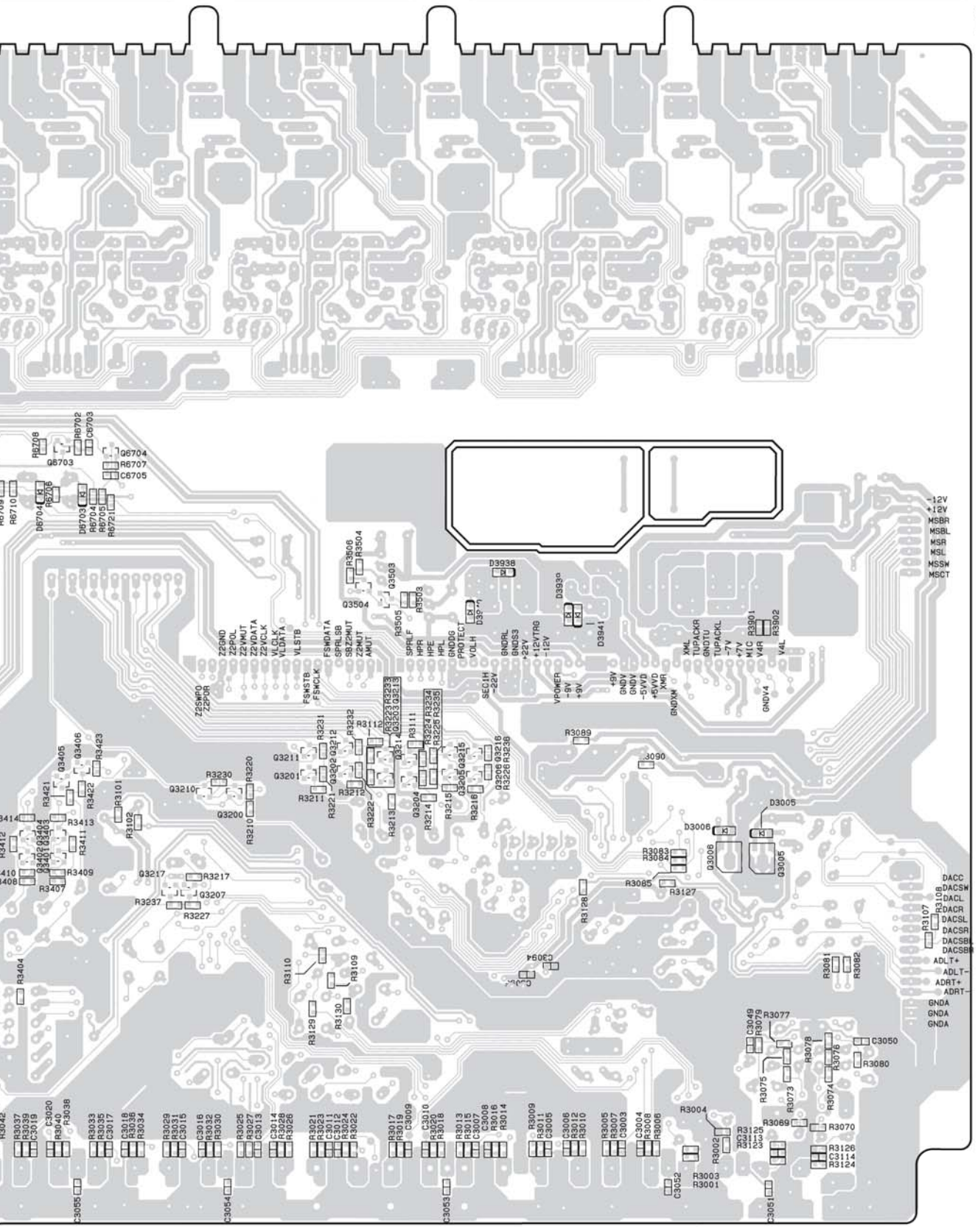
Side-B

U05

THERMAL DETECTOR PC BOARD (NAETC-8680)

Side-B

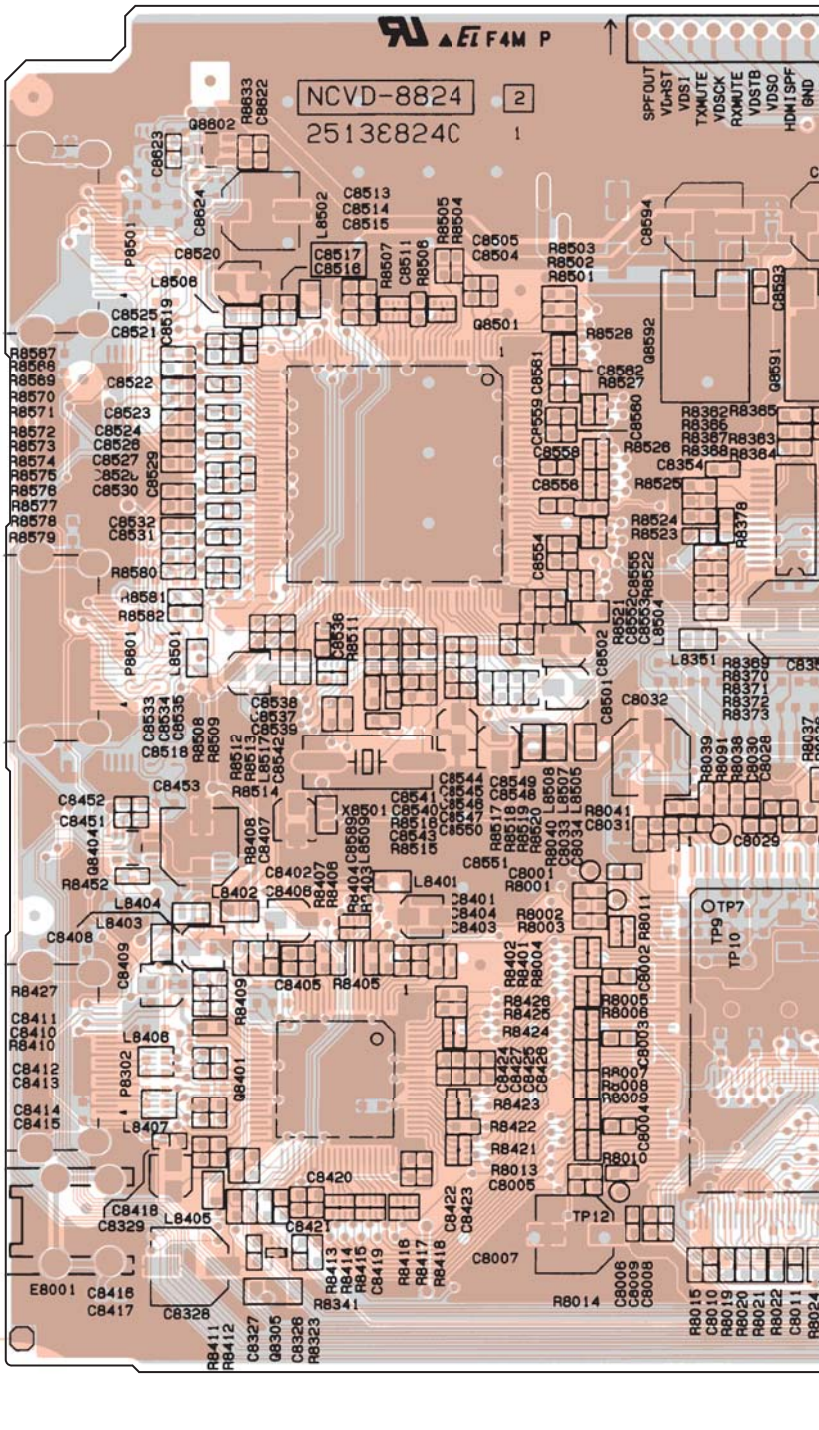
E F G H


Q6703
Q6704
R6707
C6705
R6702
C6703
R6708
R6710
D6704
D6703
R6704
R6705
R6721
Q3504
Q3503
R3506
R3504
R3505
R3503
D3938
D3933
D3841
D3937
Z2GND
Z2POL
Z2VMUT
Z2VDATA
Z2VCLK
VLCLK
VLDATA
VLSTB
FSWDATA
SPRLSB
SBZ2MUT
Z2MUT
AMUT
FSWSTB
FSWCLK
SPRLF
HPR
HPE
HPL
GNDBG
PROTECT
VOLH
GNDRL
GNDS3
+22V
+12VTRG
12V
SEG1M
-22V
VPOWER
+8V
+9V
+9V
GNDV
GNDV
-5VVD
+5VVD
XNR
GNDXM
XML
TUPACKR
GNDTU
TUPACKL
-7V
+7V
MIC
V4R
V4L
R3901
R3902
GNDV4
Z2SWPO
Z2POR
R3231
R3232
R3112
R3223
R3233
Q3203
R3213
Q3211
Q3212
Q3201
Q3202
R3211
R3221
R3212
R3222
R3111
R3224
R3234
R3225
R3235
Q3204
R3214
Q3205
Q3215
R3215
R3216
Q3206
Q3216
R3226
R3236
R3089
3090
R3230
R3220
Q3210
Q3200
R3210
Q3405
Q3406
R3423
R3421
R3422
R3101
R3102
R3413
R3411
R3409
R3407
Q3217
R3217
Q3207
R3237
R3227
R3404
R3110
R3109
R3130
R3129
C3094
D3005
D3006
R3083
R3084
R3085
R3127
R3128
Q3006
Q3005
DACC
DACSW
DACL
DACR
DACSL
DACSR
DACSBL
DACSBR
ADLT+
ADLT-
ADRT+
ADRT-
GNDA
GNDA
GNDA
R3108
R3107
R3081
R3082
C3049
R3079
R3077
C3050
R3080
R3078
R3076
R3075
R3073
R3074
R3069
R3070
R3004
R3002
R3125
C3115
R3126
C3114
R3124
R3003
R3001
C3052
C3051
C3055
C3054
C3053
C3042
R3042
R3037
R3039
C3019
C3020
R3040
R3038
R3033
R3035
C3017
C3018
R3036
R3034
R3029
R3031
C3015
C3016
R3032
R3030
R3025
R3027
C3013
C3014
R3028
R3026
R3021
R3023
C3011
C3012
R3024
R3022
R3017
R3019
C3009
C3010
R3020
R3018
R3013
R3015
C3007
C3008
R3016
R3014
R3009
R3011
C3005
C3006
R3012
R3010
R3005
R3007
C3003
C3004
R3008
R3006

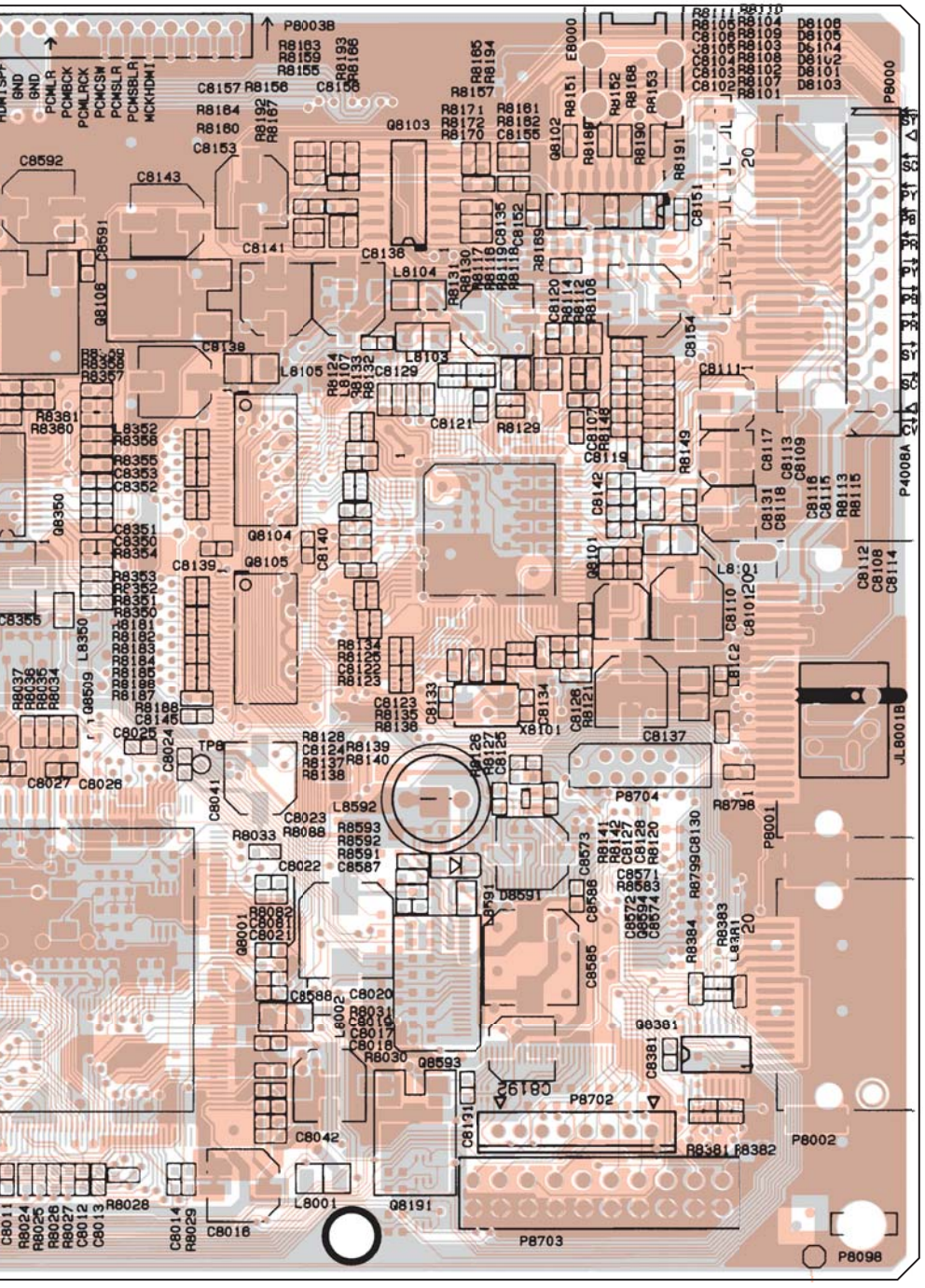
PRINTED CIRCUIT BOARD VIEWS-5

U08 HDMI PC BOARD (NAVD-8824)

Side-A



E F G H


P8003B
P8000
P8001
P8002
P8098
P8702
P8703
P8704
P8798
P4008A
JL8001B
Q8103
Q8104
Q8105
Q8106
Q8350
Q8509
Q8001
Q8593
Q8191
Q8381
L8104
L8105
L8103
L8352
L8350
L8592
L8001
L8002
L8381
L8382
L8101
L8102
X8101
D8591
D8101
D8102
D8103
D8104
D8105
D8106
TP8
PCMLR
PCMBCK
PCMLRCK
PCMCSW
PCMSLR
PCMSBLR
MCKHDMI
GND
GND

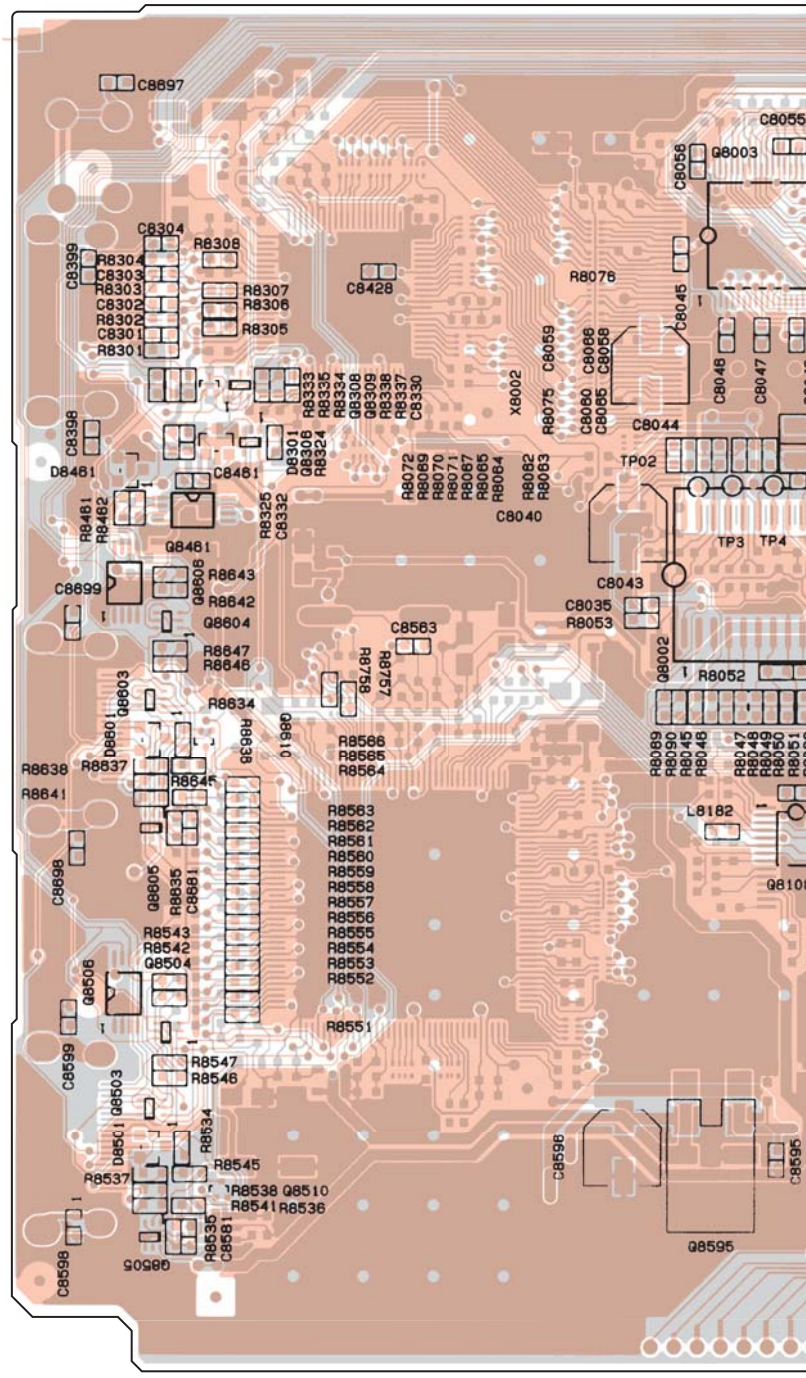
A B C D

1 2 3 4 5

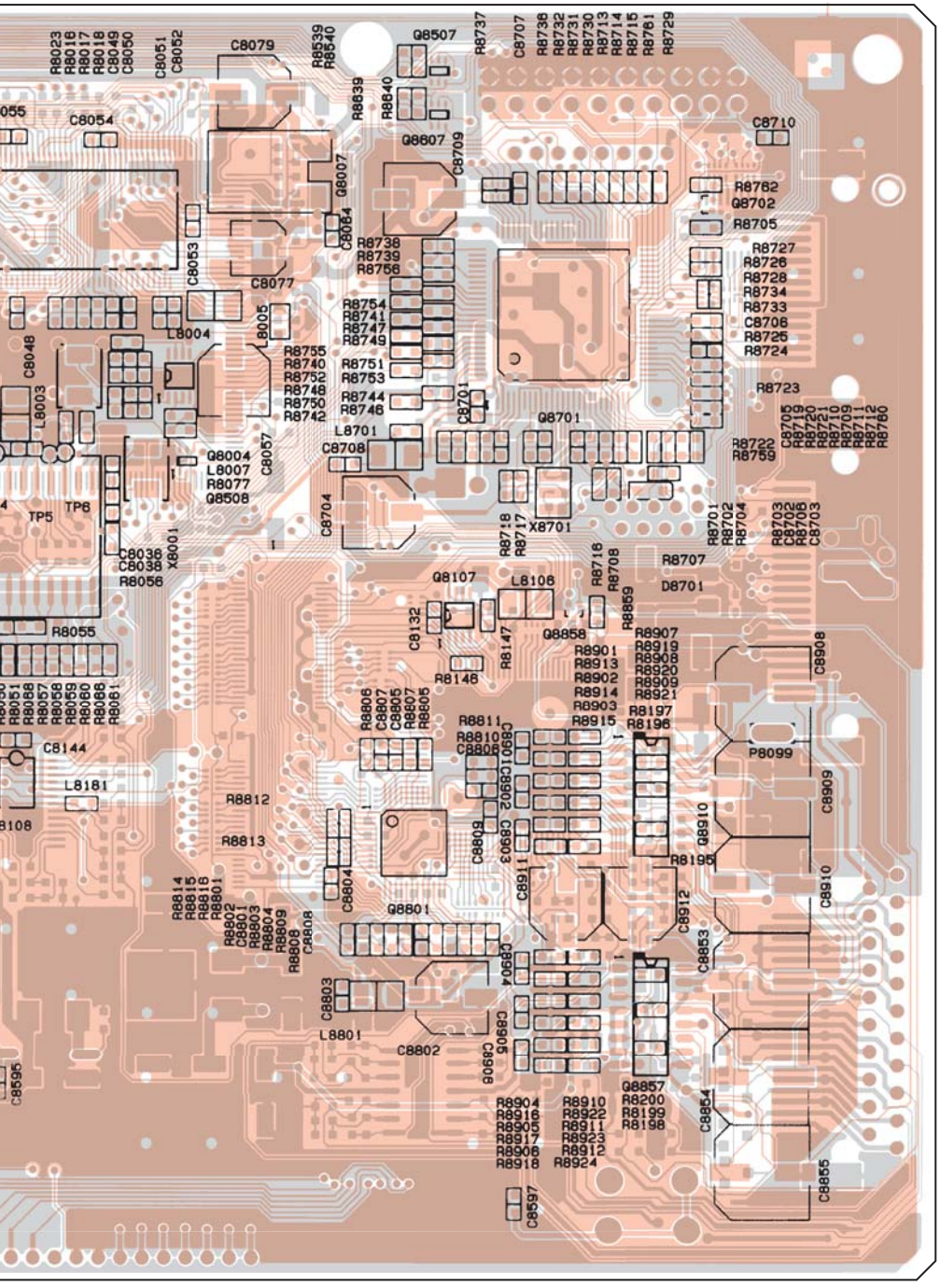
PRINTED CIRCUIT BOARD VIEWS-6

U08 HDMI PC BOARD (NAVD-8824)

Side-B



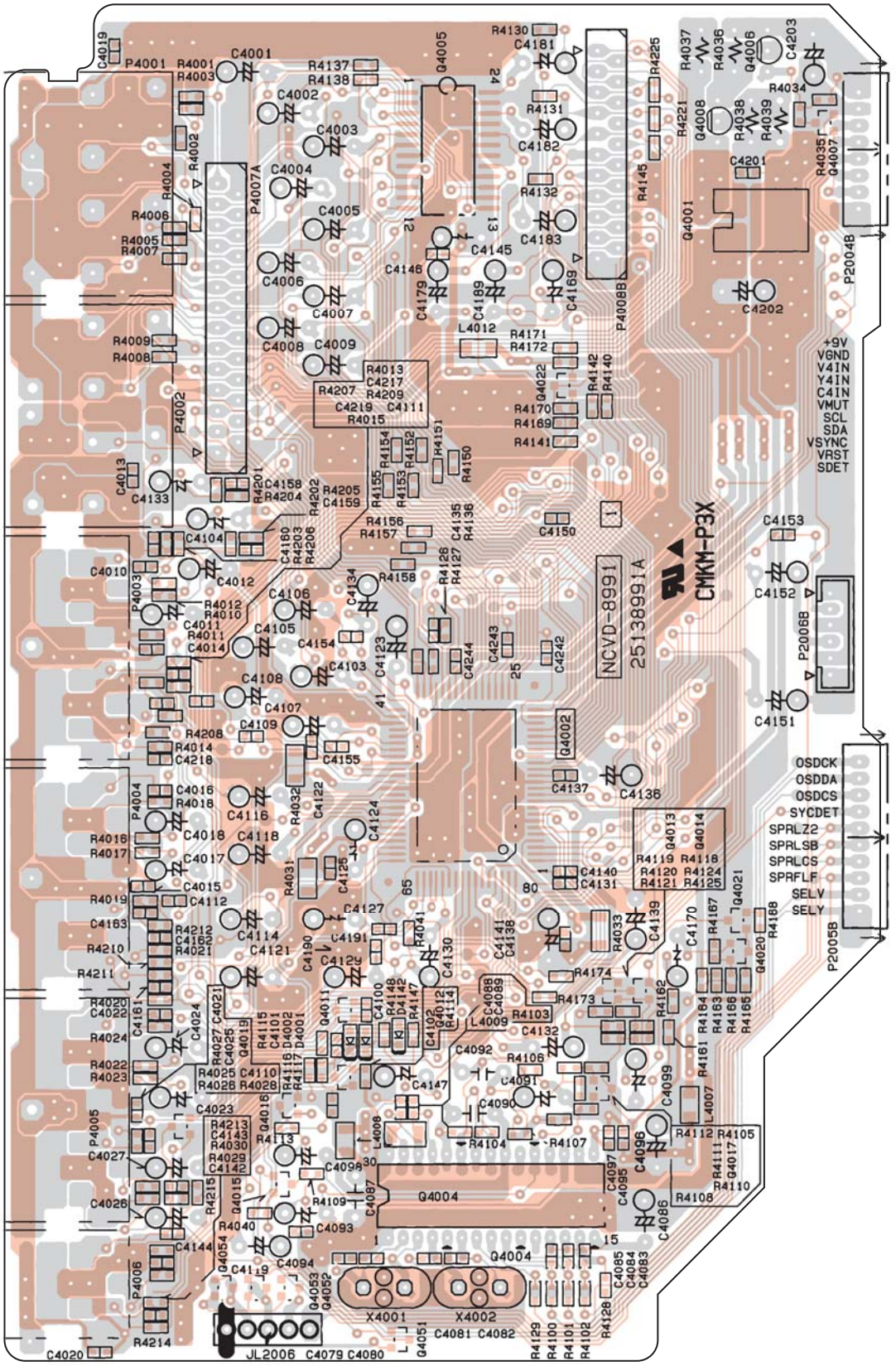
E F G H


C8079
C8054
C8053
C8077
L8004
L8005
C8048
L8003
C8057
TP5
TP6
C8036
C8038
X8001
R8056
R8055
C8144
L8181
R8812
R8813
C8804
Q8801
C8803
L8801
C8802
C8595
Q8507
R8539
R8540
R8839
R8840
Q8607
Q8007
C8064
C8709
R8738
R8739
R8756
R8754
R8741
R8747
R8749
R8755
R8740
R8752
R8748
R8750
R8742
R8751
R8753
R8744
R8746
C8701
L8701
C8708
Q8004
L8007
R8077
Q8508
C8704
Q8107
L8106
C8132
R8148
R8147
Q8858
R8718
R8717
X8701
R8716
R8708
R8859
D8701
R8707
C8710
R8762
Q8702
R8705
R8727
R8726
R8728
R8734
R8733
C8706
R8725
R8724
R8723
Q8701
R8722
R8759
R8701
R8702
R8704
R8703
C8702
R8706
C8703
C8709
R8710
R8720
R8721
R8709
R8711
R8712
R8760
C8908
R8907
R8919
R8908
R8920
R8909
R8921
R8901
R8913
R8902
R8914
R8903
R8915
R8197
R8196
P8099
C8909
C8910
Q8910
R8195
C8912
C8853
C8854
C8855
R8904
R8916
R8905
R8917
R8906
R8918
R8910
R8922
R8911
R8923
R8912
R8924
Q8857
R8200
R8199
R8198
C8597
C8806
C8807
C8805
R8807
R8805
R8806
R8811
R8810
C8805
C8901
C8902
C8903
C8809
C8911
C8904
C8905
C8906
R8814
R8815
R8816
R8801
R8802
C8801
R8803
R8804
R8809
R8808
C8808

PRINTED CIRCUIT BOARD VIEWS-7

U09 VIDEO PC BOARD (NAVD-8991)

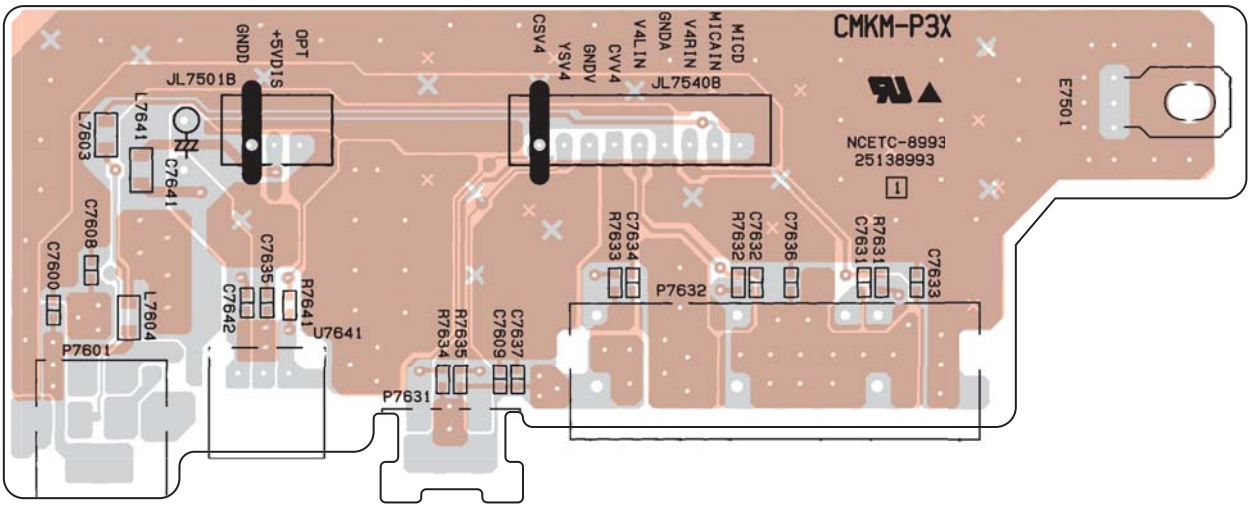
Side-A



PRINTED CIRCUIT BOARD VIEWS-8

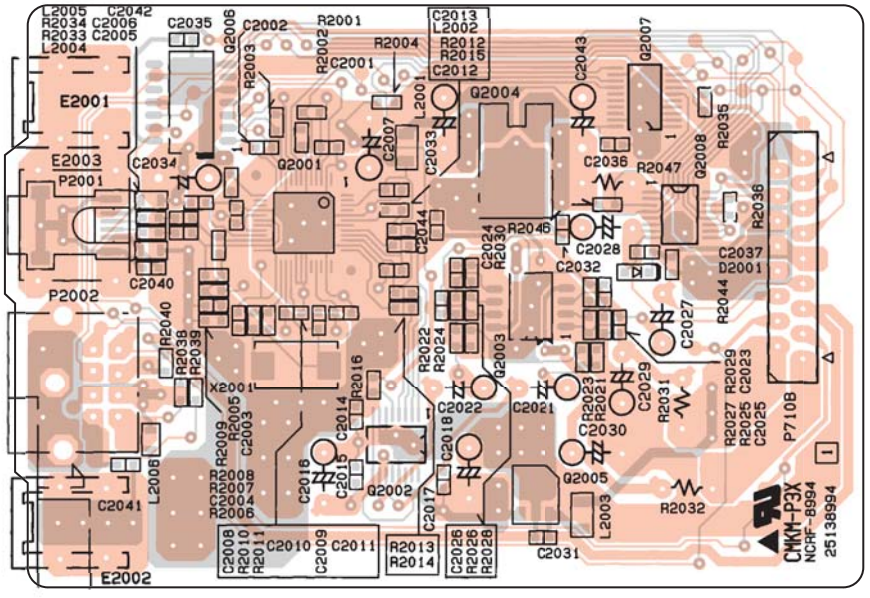
U11 VIDEO TERMINAL PC BOARD (NAETC-8993)

Side-A



U12 XM PC BOARD (NARF-8994)

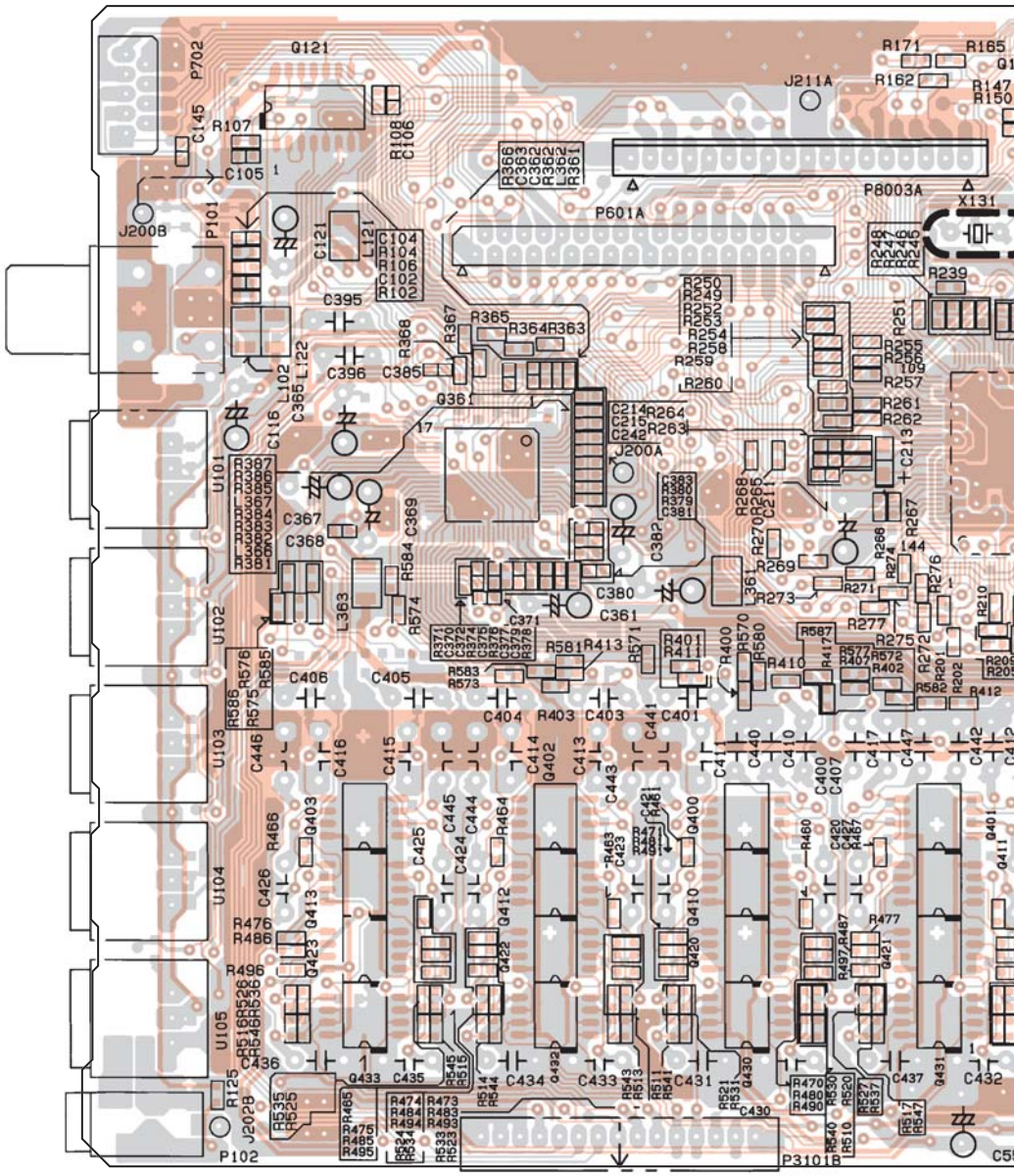
Side-A



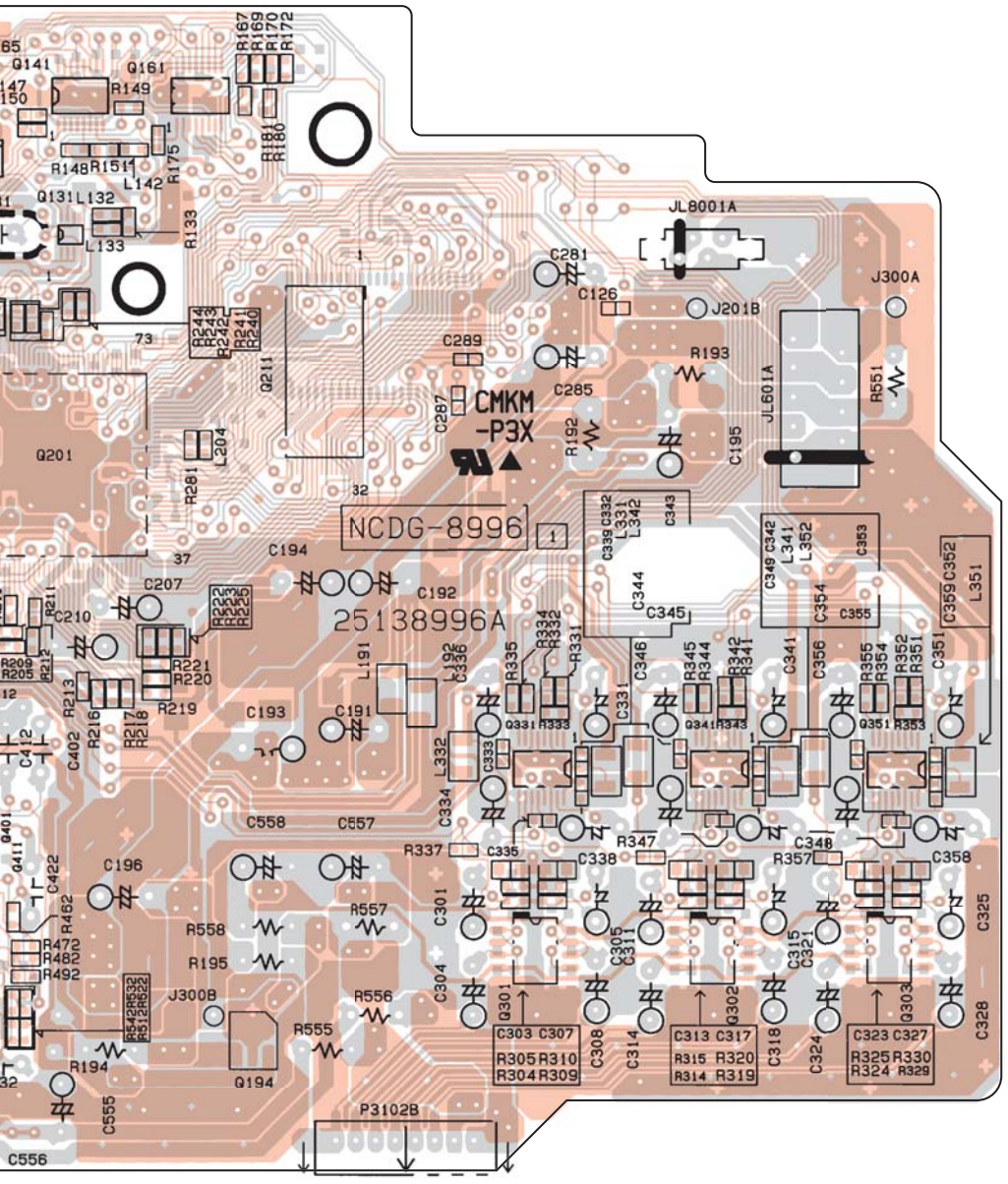
PRINTED CIRCUIT BOARD VIEWS-9

U13 DSP PC BOARD (NADG-8996)

Side-A



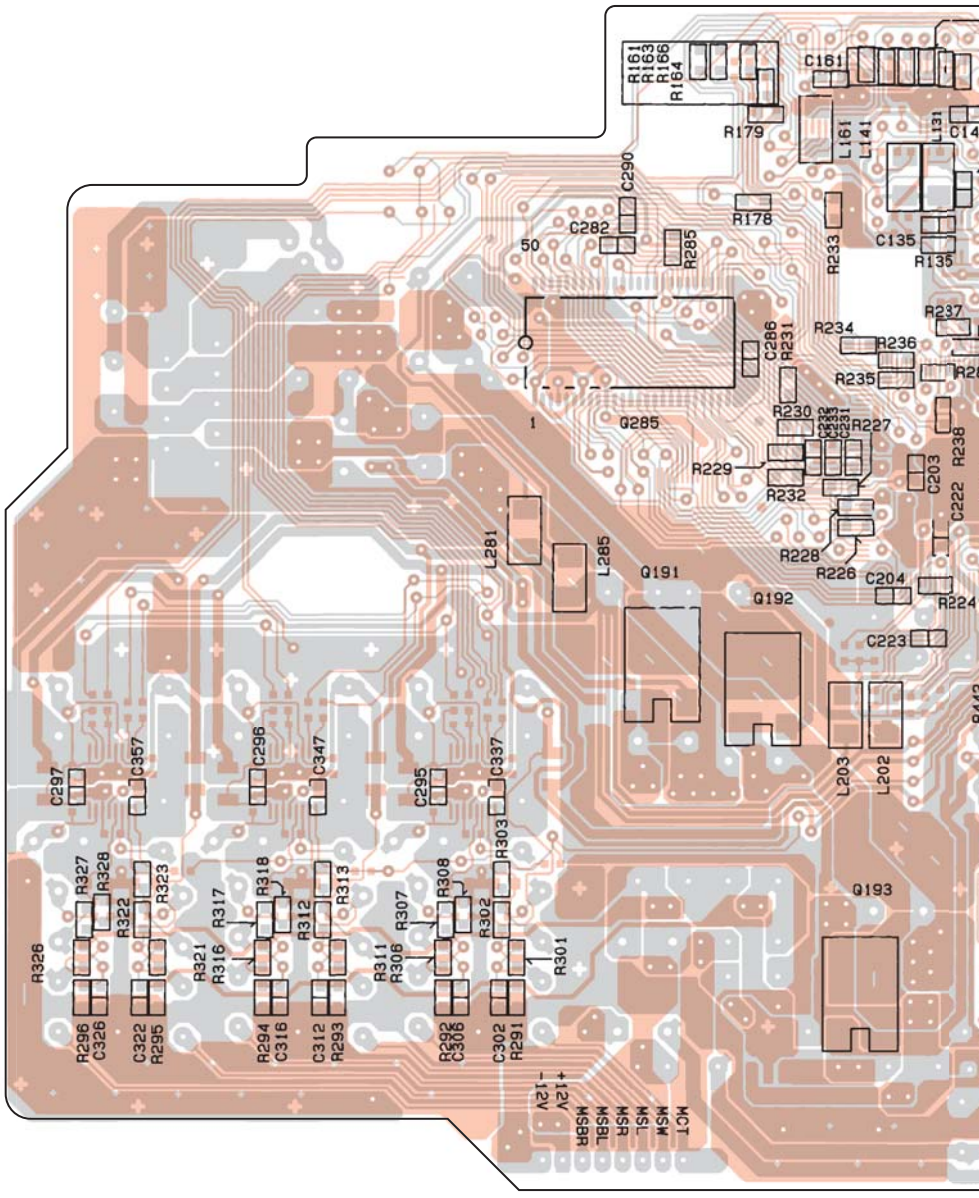
E F G H


NCDG-8996
25138996A
CMKM
-P3X
JL8001A
J300A
J201B
JL601A
P3102B
J300B
Q141
Q161
Q131
Q201
Q211
Q194
Q301
Q302
Q303
Q331
Q341
Q351
C281
C126
C289
C285
C287
C192
C194
C207
C210
C193
C191
C195
C196
C557
C558
C555
C556
C301
C304
C305
C308
C311
C314
C315
C318
C321
C324
C325
C328
C331
C332
C334
C335
C338
C339
C341
C342
C343
C344
C345
C346
C348
C349
C351
C352
C353
C354
C355
C356
C358
C359
L132
L133
L142
L204
L191
L192
L332
L331
L341
L342
L351
L352
R149
R148
R151
R175
R133
R167
R169
R170
R172
R181
R180
R193
R192
R551
R281
R211
R213
R216
R217
R218
R219
R220
R221
R222
R223
R225
R241
R242
R243
R244
R331
R332
R333
R334
R335
R341
R342
R343
R344
R345
R347
R351
R352
R353
R354
R355
R357
R557
R558
R195
R556
R555
R194
R492
R462
R470
R480
R542
R532
R512
R522
C402
C412
C422
C401
C411
C462
C303 C307
R305 R310
R304 R309
C313 C317
R315 R320
R314 R319
C323 C327
R325 R330
R324 R329

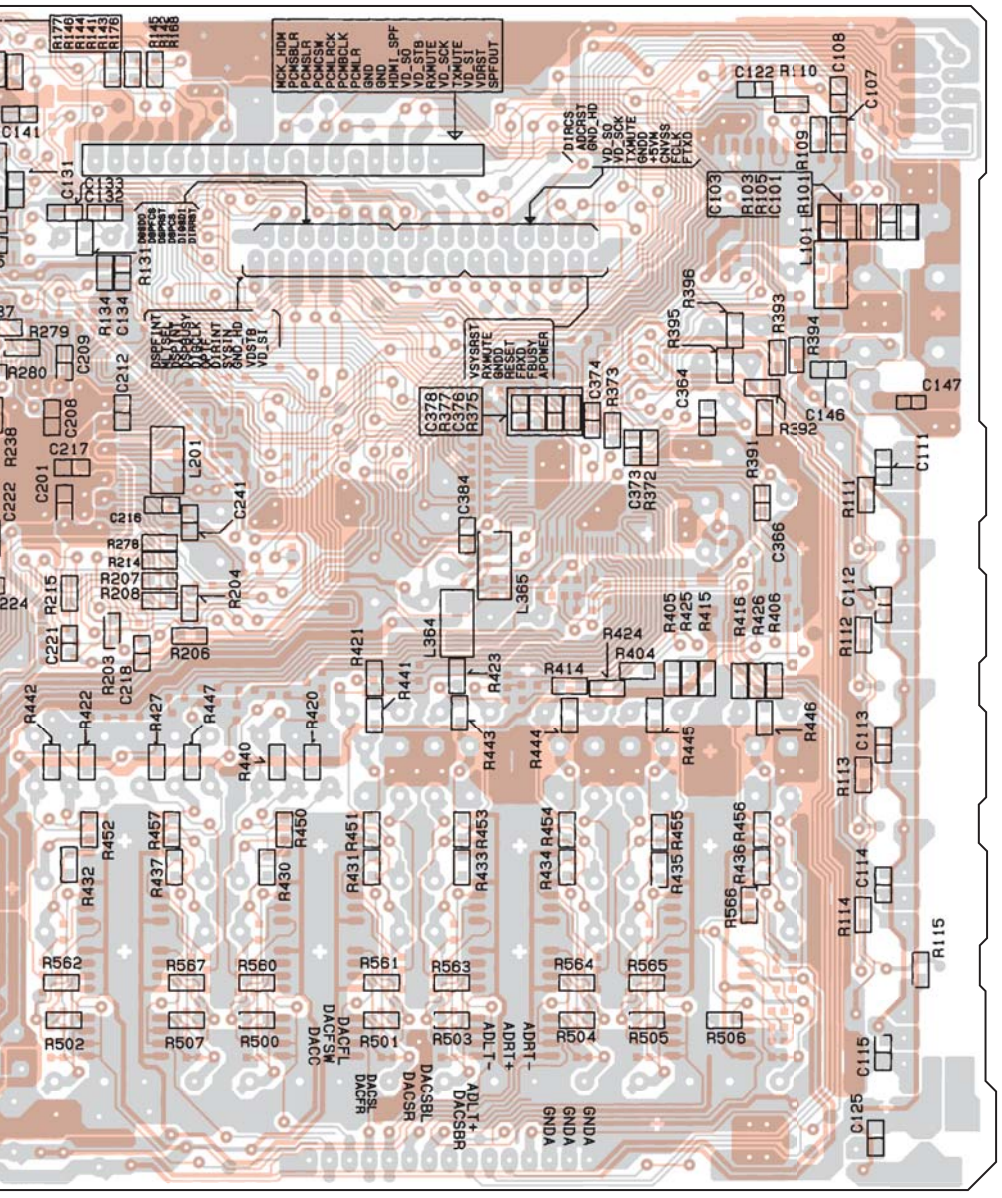
PRINTED CIRCUIT BOARD VIEWS-10

U13 DSP PC BOARD (NADG-8996)

Side-B



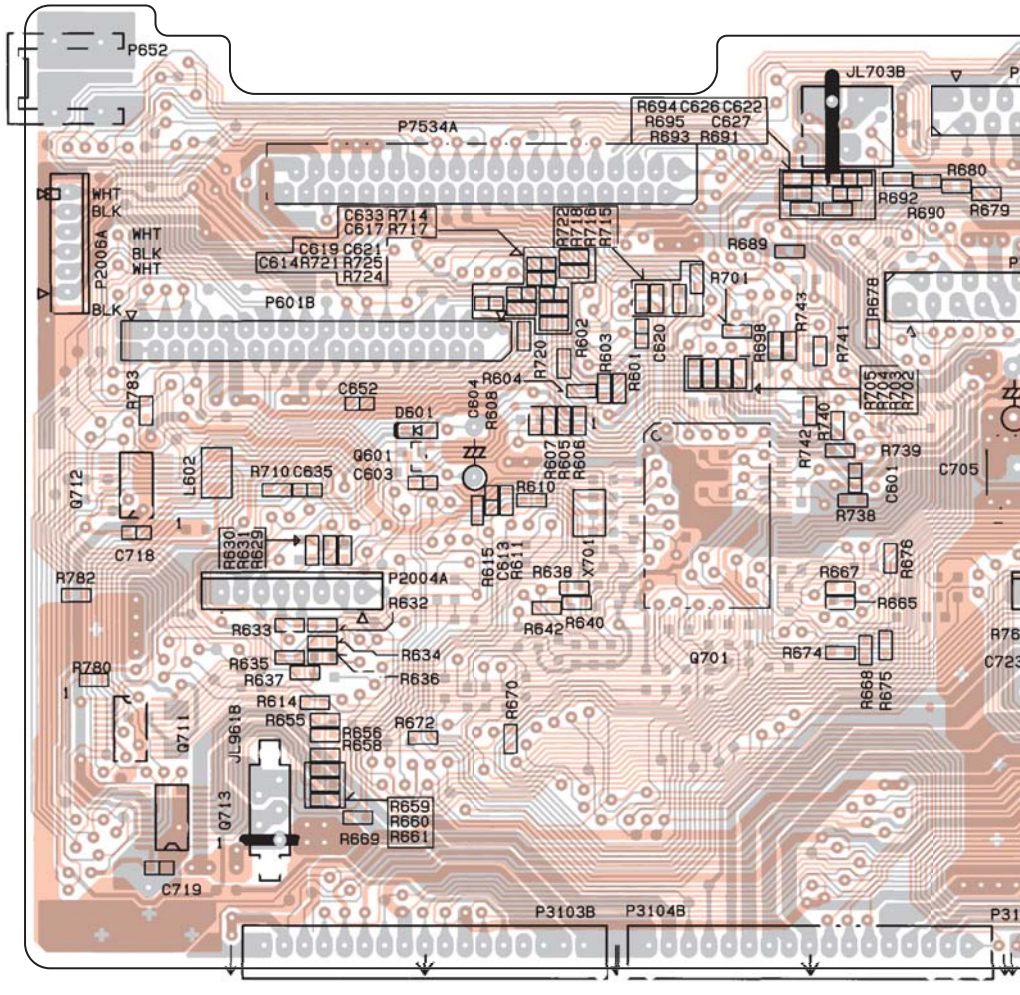
E F G H



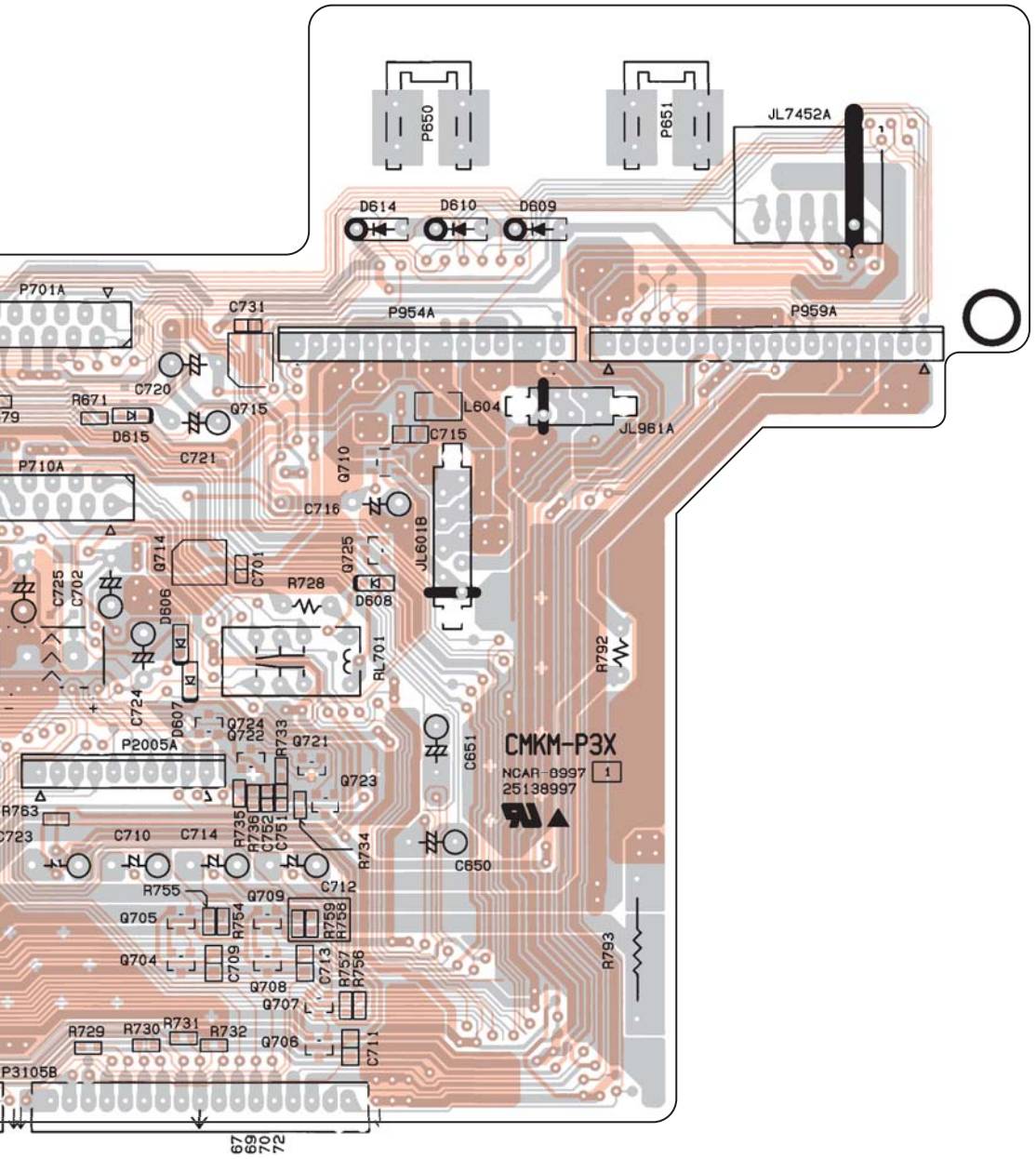
PRINTED CIRCUIT BOARD VIEWS-11

U14 MICROPROCESSOR PC BOARD (NAAR-8997)

Side-A



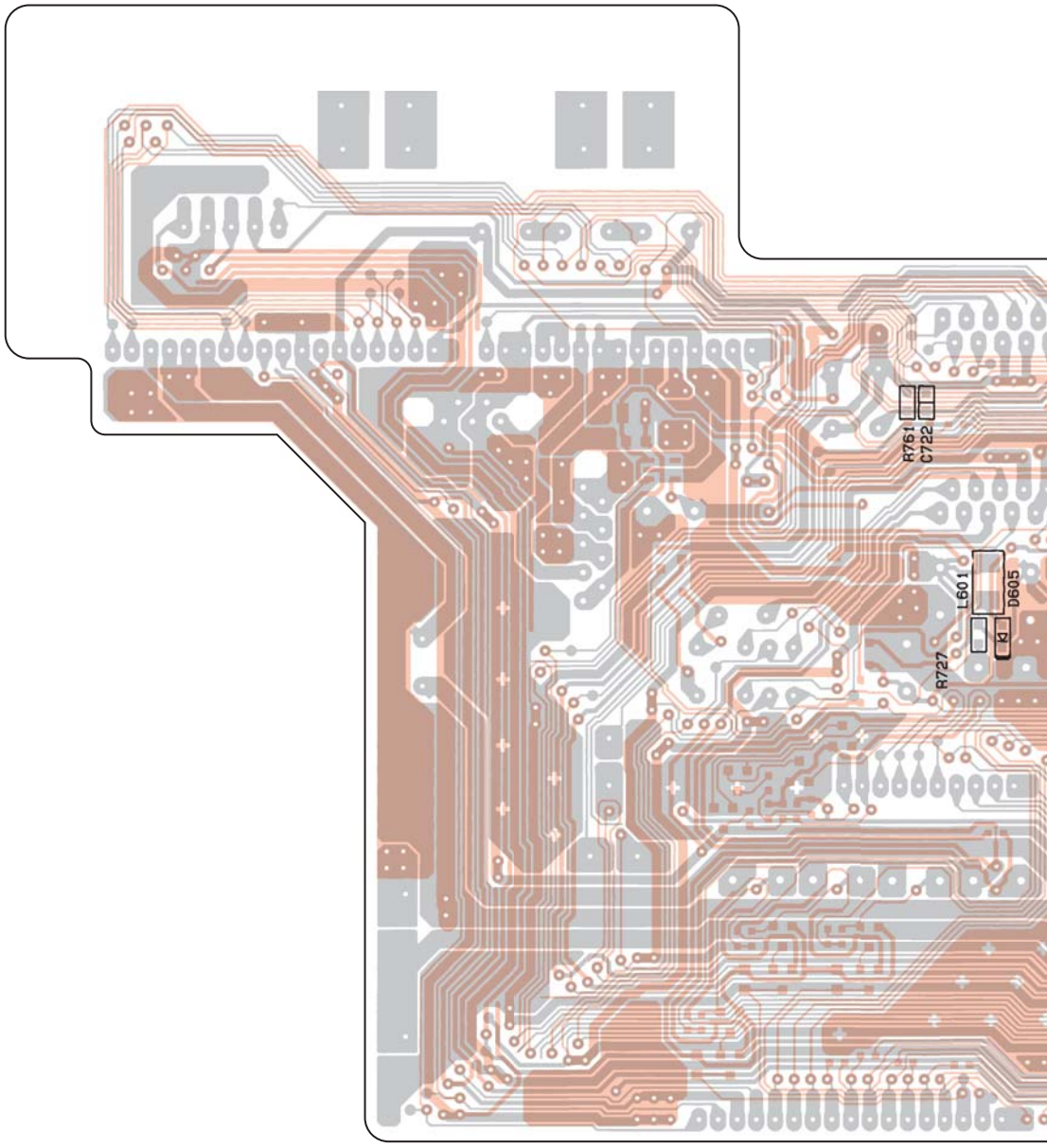
E F G H


P650
P651
JL7452A
D614
D610
D609
P701A
C731
P954A
P959A
C720
R671
D615
Q715
L604
JL961A
C715
C721
P710A
Q710
C716
JL601B
Q714
C701
Q725
R728
D608
C725
C702
D606
RL701
R792
C724
D607
Q724
Q722
Q733
Q721
P2005A
C651
CMKM-P3X
NCAR-0997
25138997
Q723
R763
C723
C710
C714
R735
R736
C752
C751
R734
C650
R755
C712
Q709
Q705
R754
R759
R758
Q704
C709
C713
R757
R756
Q708
Q707
R793
R729
R730
R731
R732
Q706
C711
P3105B
67
69
70
72

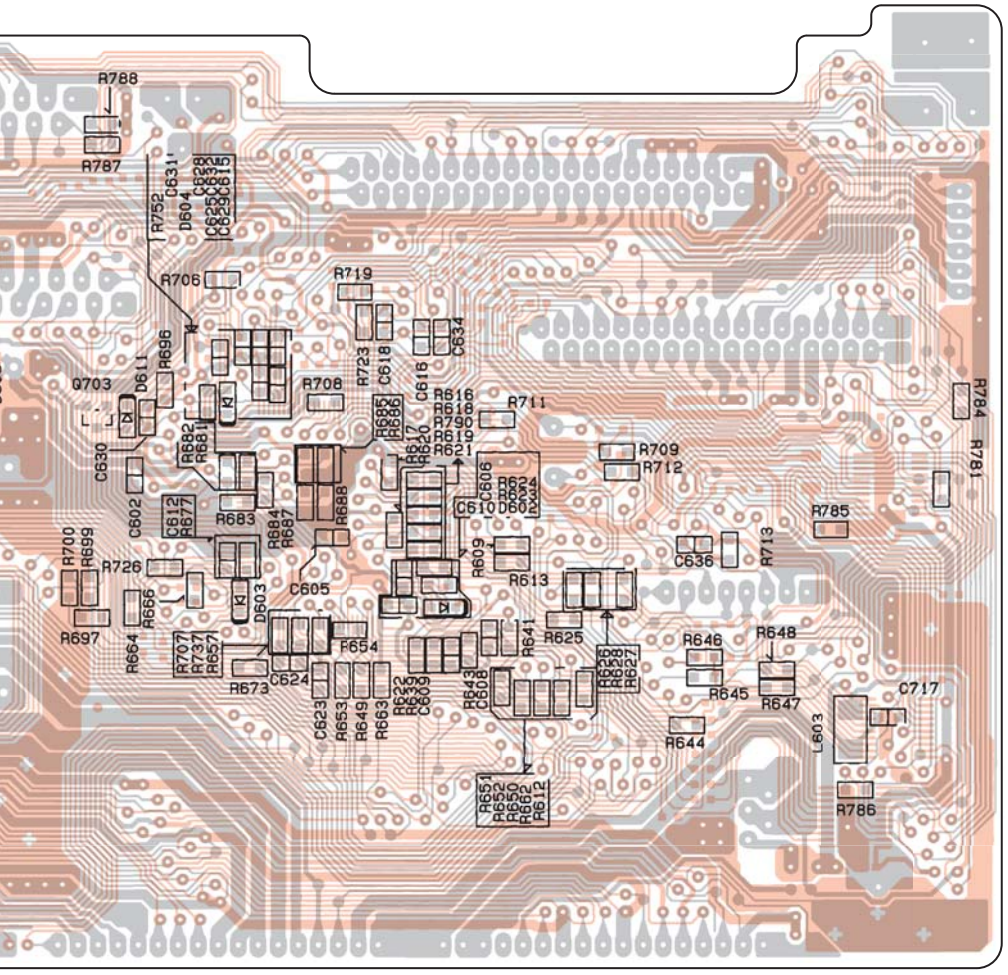
PRINTED CIRCUIT BOARD VIEWS-12

U14 MICROPROCESSOR PC BOARD (NAAR-8997)

Side-B



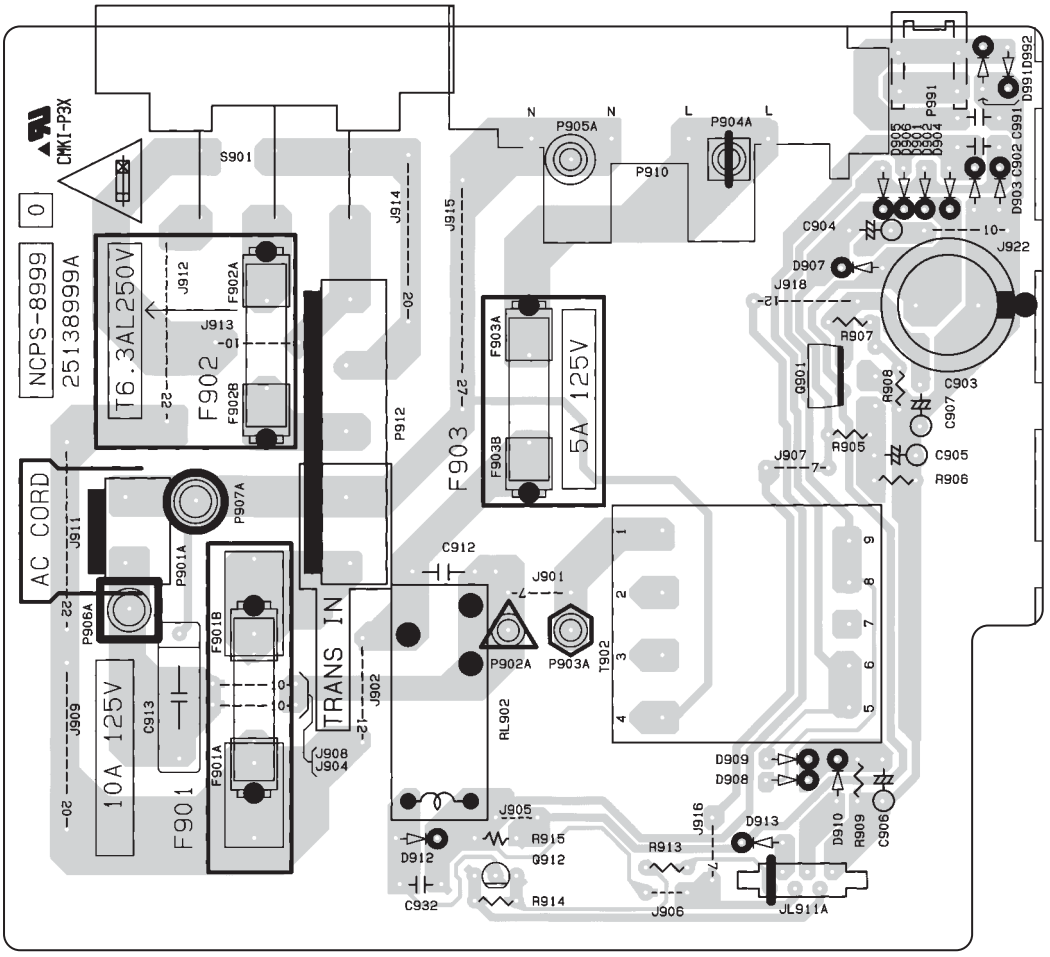
E F G H


R788
R787
R752
C631
D604
C628
C629
C615
R706
R719
R723
C618
C616
C634
R696
D611
Q703
R708
R816
R818
R790
R619
R621
R711
R709
R712
R784
R781
R785
C636
R713
C606
C510
D602
R609
R613
C605
R683
R684
R687
R688
R682
R681
C630
C602
C612
R677
R700
R699
R726
R697
R666
R664
D603
R707
R737
R657
F654
C624
R673
C623
R653
R649
R663
R622
R639
C609
R643
C608
R641
R625
R646
R648
R645
R647
R644
C717
L603
R786
R651
R652
R650
R662
R612

PRINTED CIRCUIT BOARD VIEWS-13

U16 POWER SUPPLY PC BOARD (NAPS-8999)

Side-A



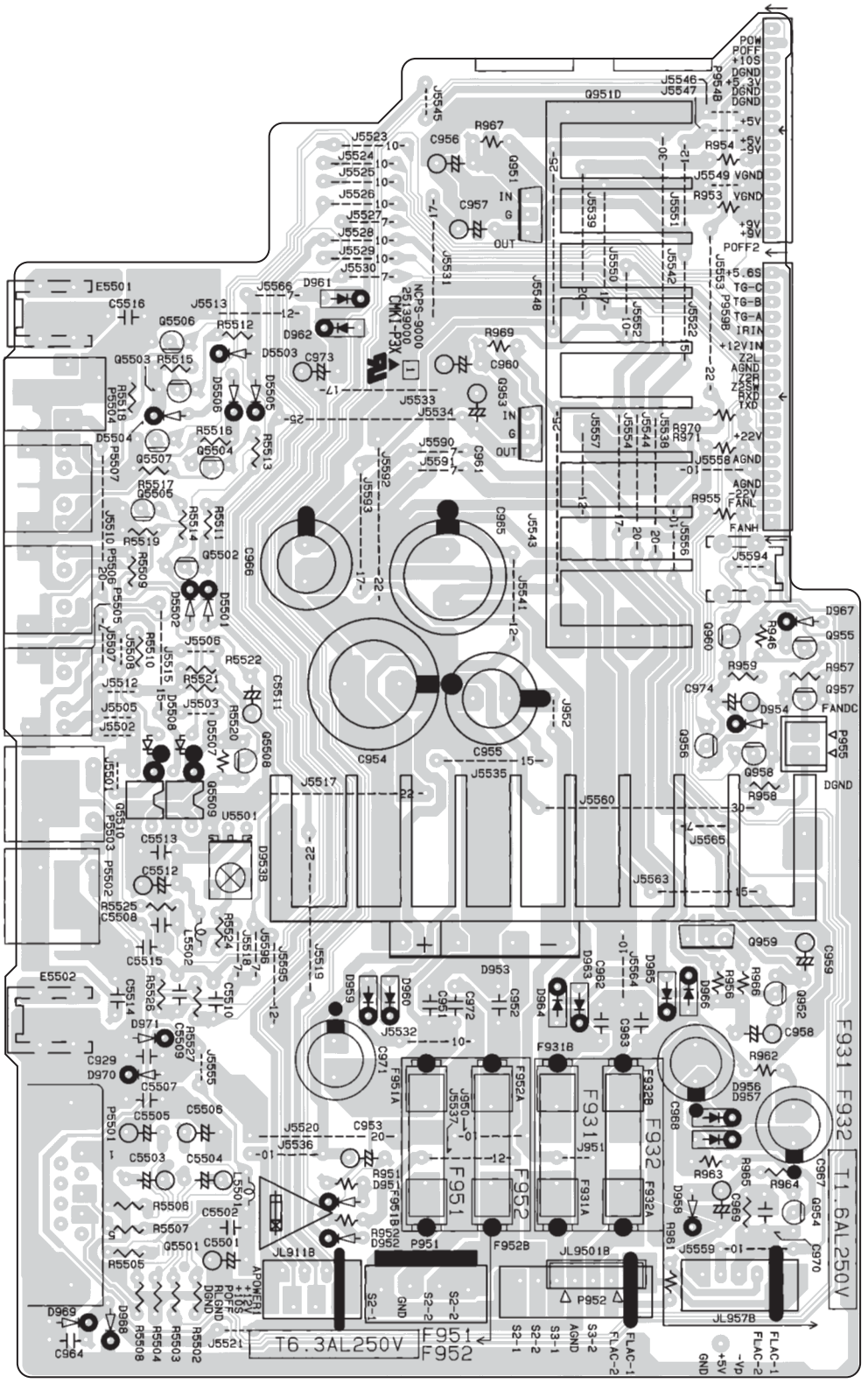
A B C D

1 2 3 4 5

PRINTED CIRCUIT BOARD VIEWS-14

U17 POWER SUPPLY PC BOARD (NAPS-9000)

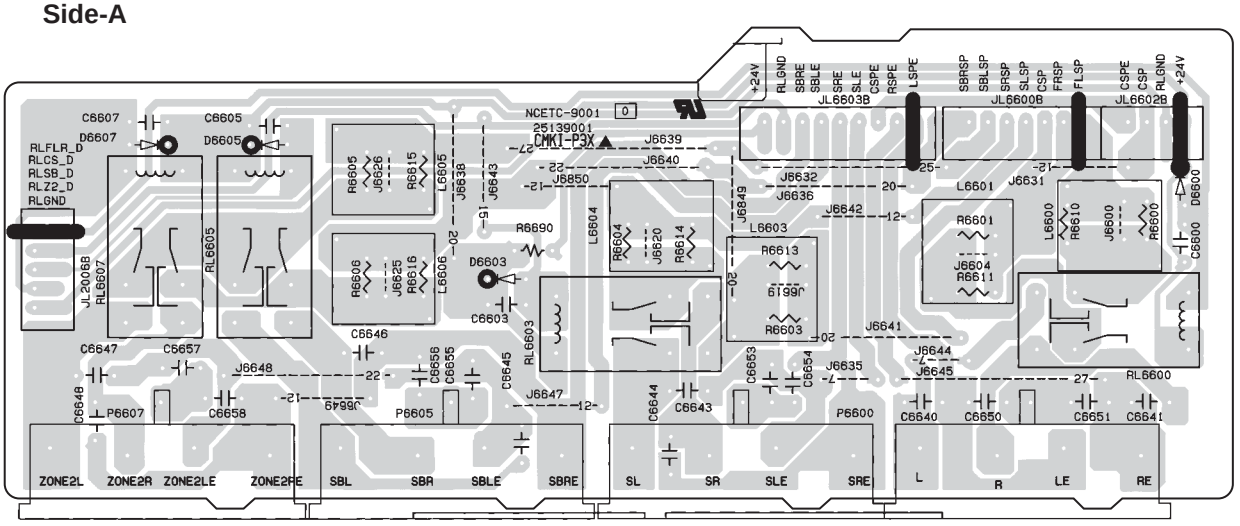
Side-A



PRINTED CIRCUIT BOARD VIEWS-15

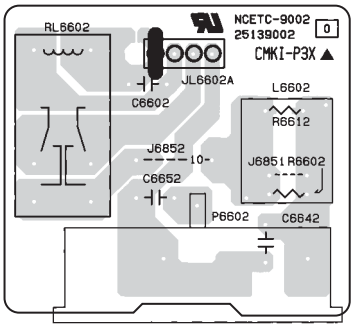
U18 SP TERMINAL PC BOARD (NAETC-9001)

Side-A



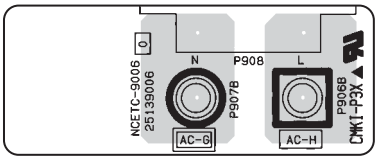
U19 SP TERMINAL PC BOARD (NAETC-9002)

Side-A



U24 INLET PC BOARD (NAETC-9006)

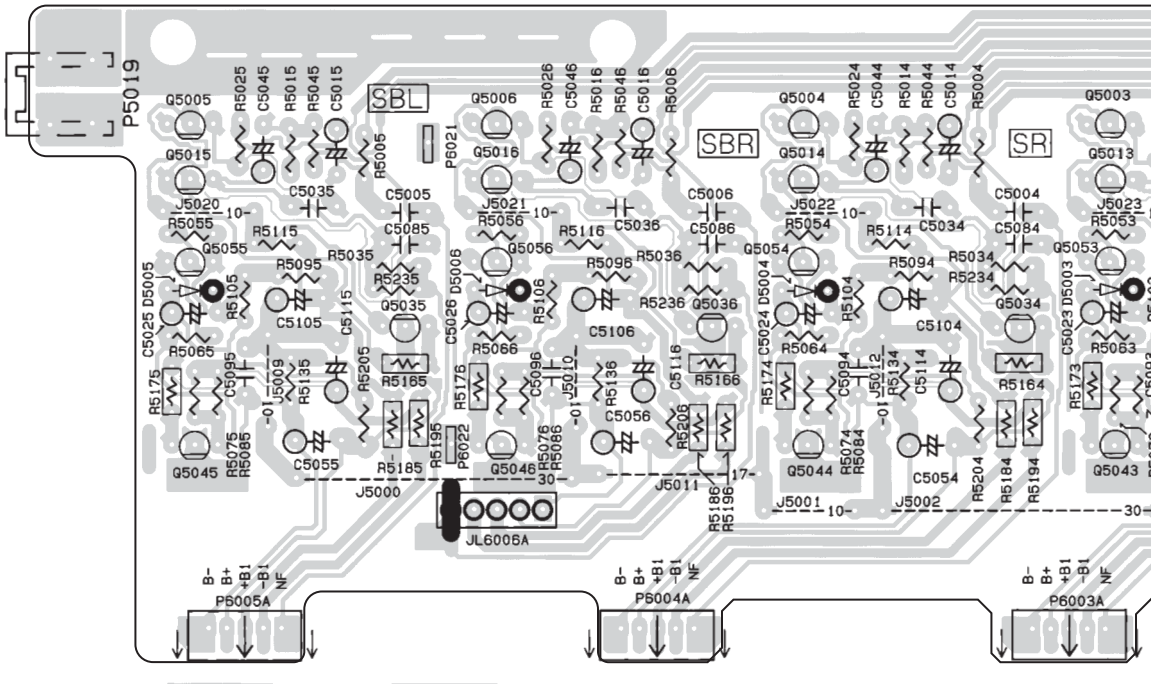
Side-A



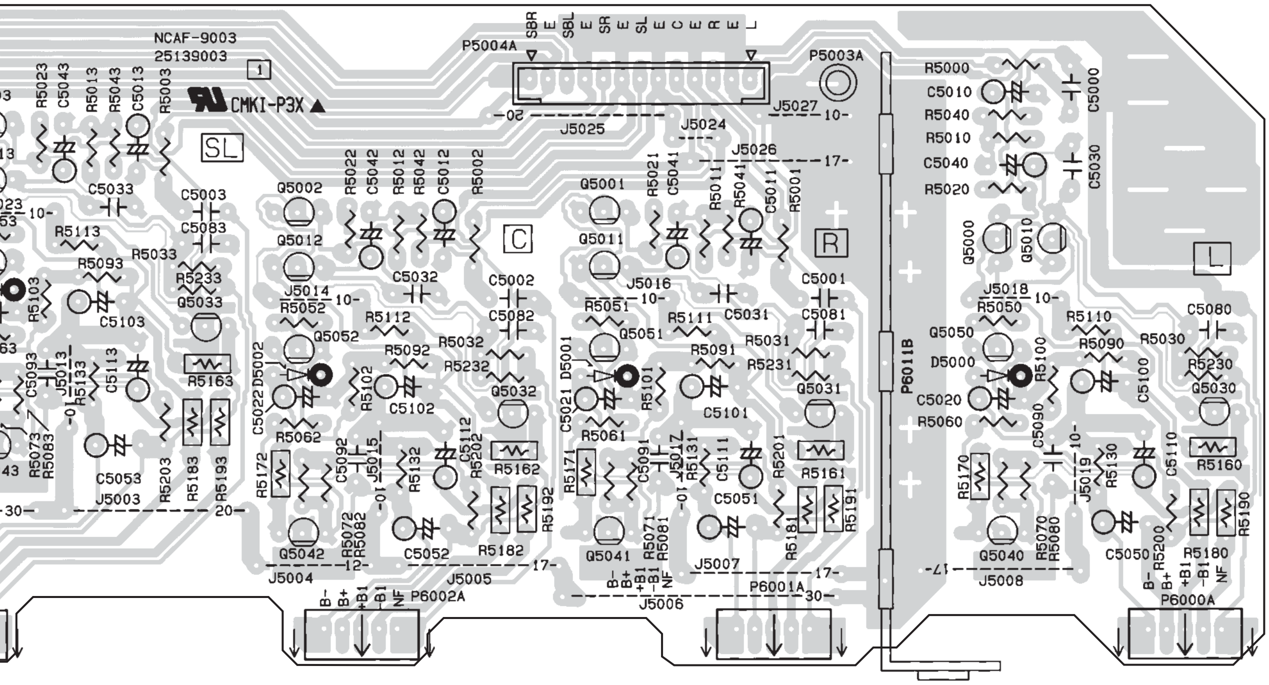
PRINTED CIRCUIT BOARD VIEWS-16

U20 DRIVER AMPLIFIER PC BOARD (NAAF-9003)

Side-A



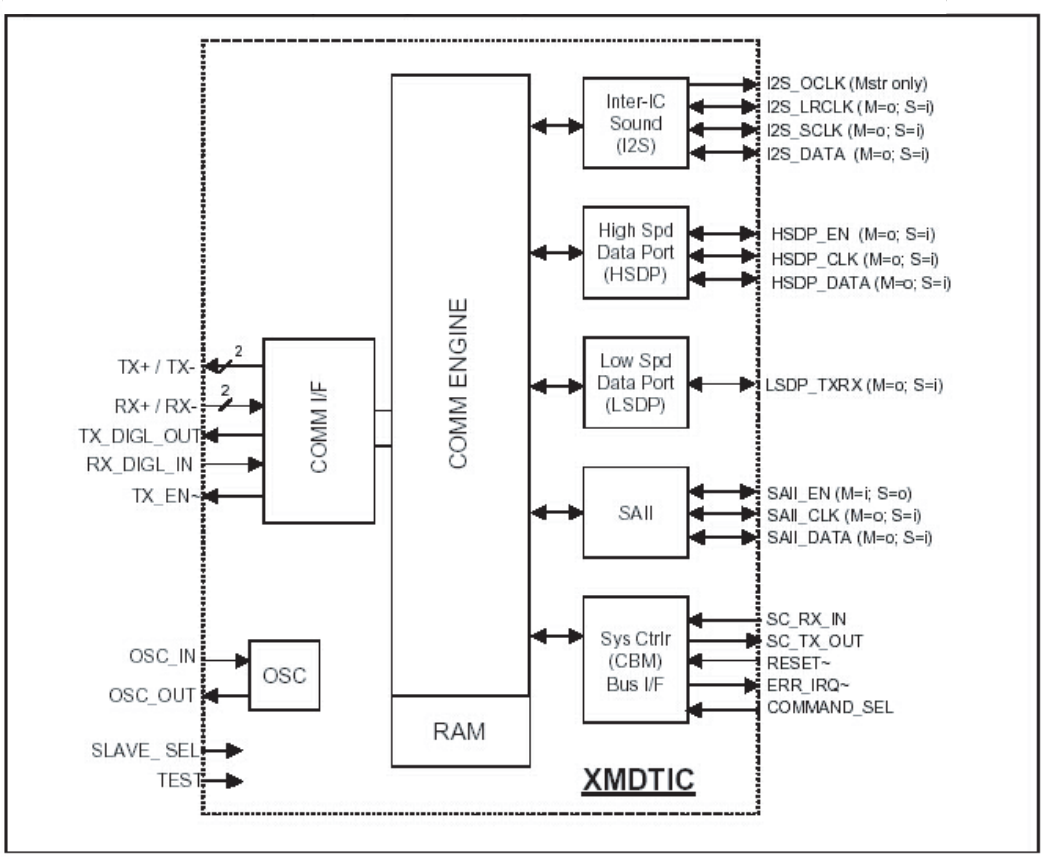
E F G H


NCAF-9003
25139003
CMKI-P3X
SL
C
R
L
P5004A
SBR E SBL E SR E SL E C E R E L
P5003A
P6011B
P6002A
P6001A
P6000A
B- B+ +B1 -B1 NF
J5003 J5004 J5005 J5006 J5007 J5008 J5013 J5014 J5015 J5016 J5017 J5018 J5019 J5024 J5025 J5026 J5027
Q5000 Q5001 Q5002 Q5010 Q5011 Q5012 Q5030 Q5031 Q5032 Q5033 Q5040 Q5041 Q5042 Q5050 Q5051 Q5052
D5000 D5001 D5002
C5000 C5001 C5002 C5003 C5010 C5011 C5012 C5013 C5020 C5021 C5022 C5030 C5031 C5032 C5033 C5040 C5041 C5042 C5043 C5050 C5051 C5052 C5053 C5080 C5081 C5082 C5083 C5090 C5091 C5092 C5093 C5100 C5101 C5102 C5103 C5110 C5111 C5112 C5113
R5000 R5001 R5002 R5003 R5010 R5011 R5012 R5013 R5020 R5021 R5022 R5023 R5030 R5031 R5032 R5033 R5040 R5041 R5042 R5043 R5050 R5051 R5052 R5060 R5061 R5062 R5070 R5071 R5072 R5073 R5080 R5081 R5082 R5083 R5090 R5091 R5092 R5093 R5100 R5101 R5102 R5103 R5110 R5111 R5112 R5113 R5130 R5131 R5132 R5133 R5160 R5161 R5162 R5163 R5170 R5171 R5172 R5180 R5181 R5182 R5183 R5190 R5191 R5192 R5193 R5200 R5201 R5202 R5203 R5230 R5231 R5232 R5233

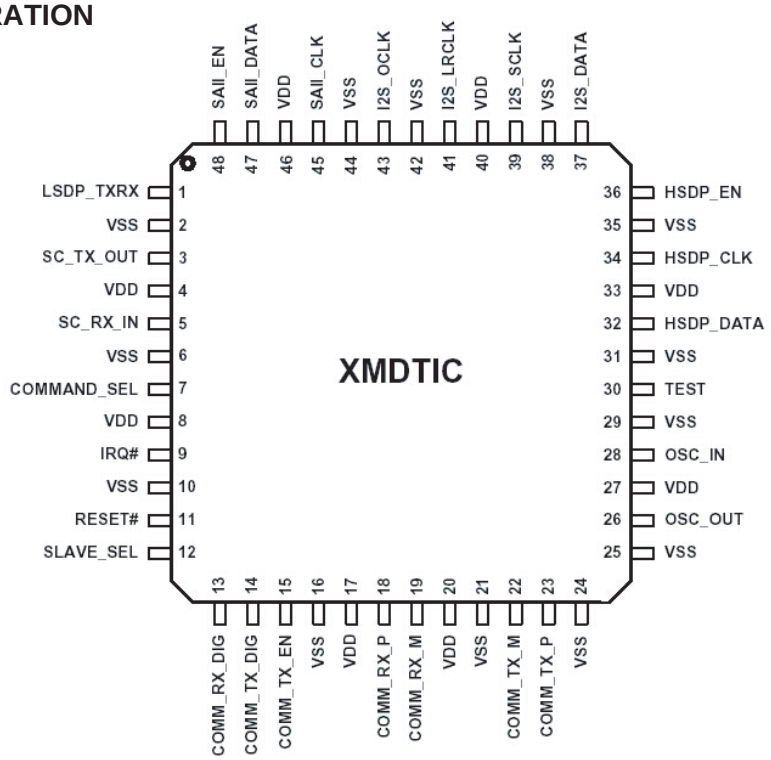
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -1

Q2001 : F2602E (XM Digital Transceiver)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -2

Q2001 : F2602E (XM Digital Transceiver)

TERMINAL DESCRIPTION (1/2)

Pin #	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
1	LSDP_TXRX	S=In M=Out	Low Speed Data Port Output	Low Speed Data Port Input	LVTTL S/T
3	SC_TX_OUT	S=Out M=Out	System Controller Bus (CBM) Transmit Data Out	System Controller Bus (CBM) Transmit Data Out	4mA, SLC
5	SC_RX_IN	S=In M=In	System Controller Bus (CBM) Receive Data In	System Controller Bus (CBM) Receive Data In	LVTTL S/T
7	COMMAND_SEL	S=In M=In	Command Mode Select In (1= Command Mode, 0=Normal Mode)	Command Mode Select In (1= Command Mode, 0=Normal Mode)	LVTTL S/T
9	IRQ#	S=Out M=Out	Interrupt Request Out (Active Low)	Interrupt Request Out (Active Low)	4mA Open Drain
11	RESET#	S=In M=In	Asynchronous Reset In, (Active Low)	Asynchronous Reset In, (Active Low)	LVTTL S/T
12	SLAVE_SEL	S=In M=In	M/S Mode Select In (High = Slave Mode)	M/S Mode Select In (Low = Master Mode)	LVTTL S/T
13	COMM_RX_DIG	S=In M=In	DT Comm Bus External Transceiver Receive Data In	DT Comm Bus External Transceiver Receive Data In	LVTTL S/T
14	COMM_TX_DIG	Output	DT Comm Bus External Transceiver Transmit Data Out	DT Comm Bus External Transceiver Transmit Data Out	LVTTL S/T
15	COMM_TX_EN	Output	DT Comm Bus External Transceiver Direction Out (1=Transmit, 0=Receive)	DT Comm Bus External Transceiver Direction Out (1=Transmit, 0=Receive)	LVTTL S/T
18	COMM_RX_P	S=In M=In	DT Comm Bus Internal Receiver Differential Positive In	DT Comm Bus Internal Receiver Differential Positive In	LVDS in+
19	COMM_RX_M	S=In M=In	DT Comm Bus Internal Receiver Differential Negative In	DT Comm Bus Internal Receiver Differential Negative In	LVDS in–
22	COMM_TX_M	Output	DT Comm Bus Internal Transmitter Differential Negative Out	DT Comm Bus Internal Transmitter Differential Negative Out	LVDS out–
23	COMM_TX_P	Output	DT Comm Bus Internal Transmitter Differential Positive Out	DT Comm Bus Internal Transmitter Differential Positive Out	LVDS out+
26	OSC_OUT	Output	Crystal Output	Crystal Output	Crystal Buffer
28	OSC_IN	S=In M=In	Crystal Input	Crystal Input	Crystal Buffer
30	TEST	S=In M=In	Factory Test Mode Select (1=Test, 0= Normal Oper.)	Factory Test Mode Select (1=Test, 0= Normal Oper.)	LVTTL S/T
32	HSDP_DATA	S=In M=Out	High Speed Data Port Data Input	High Speed Data Port Data Output	Out= 4mA, SLC In=LVTTL S/T
34	HSDP_CLK	S=In M=Out	High Speed Data Port Clock Input	High Speed Data Port Clock Output	Out= 4mA, SLC In=LVTTL S/T
36	HSDP_EN	S=Out M=In	High Speed Data Port Enable Output	High Speed Data Port Enable Input	Out= 4mA, SLC In=LVTTL S/T
37	I2S_DATA	S=In M=Out	I2S Digital Port Data In	I2S Digital Audio Port Data Out	Out= 4mA, SLC In=LVTTL S/T

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -3

Q2001 : F2602E (XM Digital Transceiver)

TERMINAL DESCRIPTION (2/2)

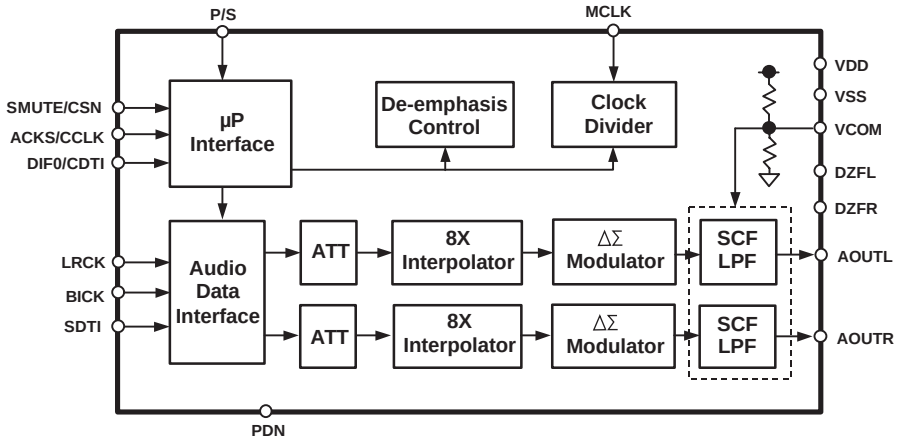
Pin #	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
39	I2S_SCLK	S=In M=Out	I2S Digital Audio Port Bit Clock In	I2S Digital Audio Port Bit Clock Out	Out= 4mA, SLC In=LVTTL S/T
41	I2S_LRCLK	S=In M=Out	I2S Digital Audio Port Left/Right Clock In	I2S Digital Audio Port Left/Right Clock Out	Out= 4mA, SLC In=LVTTL S/T
43	I2S_OCLK	S=In M=Out	I2S Digital Audio Port Oversample Clock (not used - connect to Gnd???)	I2S Digital Audio Port Oversample Clock Out	Out= 4mA, SLC
45	SAII_CLK	S=Out M=In	SAII Port Clock Output	SAII Port Clock Input	Out= 4mA, SLC 3.3V S/T
47	SAII_DATA	S=Out M=In	SAII Port Data Output	SAII Port Data Input	Out= 4mA, SLC In=LVTTL S/T
48	SAII_REQ	S=In M=Out	SAII Port Request Input	SAII Port Request Output	Out= 4mA, SLC In=LVTTL S/T

Pin#	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
4, 8, 17, 20, 27, 33, 40, 46	VDD	PWR	+3.3V Supply Voltage	+3.3V Supply Voltage	
2, 6, 10, 16, 21, 24, 25, 29, 31, 25, 38, 42, 44	VSS	GND	Digital Ground	Digital Ground	

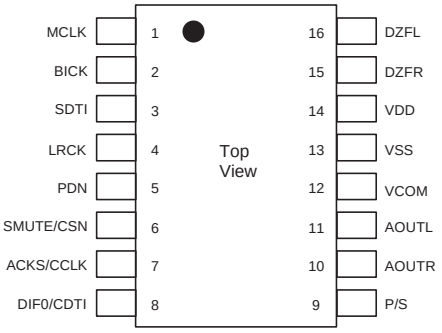
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -4

Q2002: AK4384ET (192kHz 24-Bit 2ch DAC)

BLOCK DIAGRAM



PIN CONFIGURATION



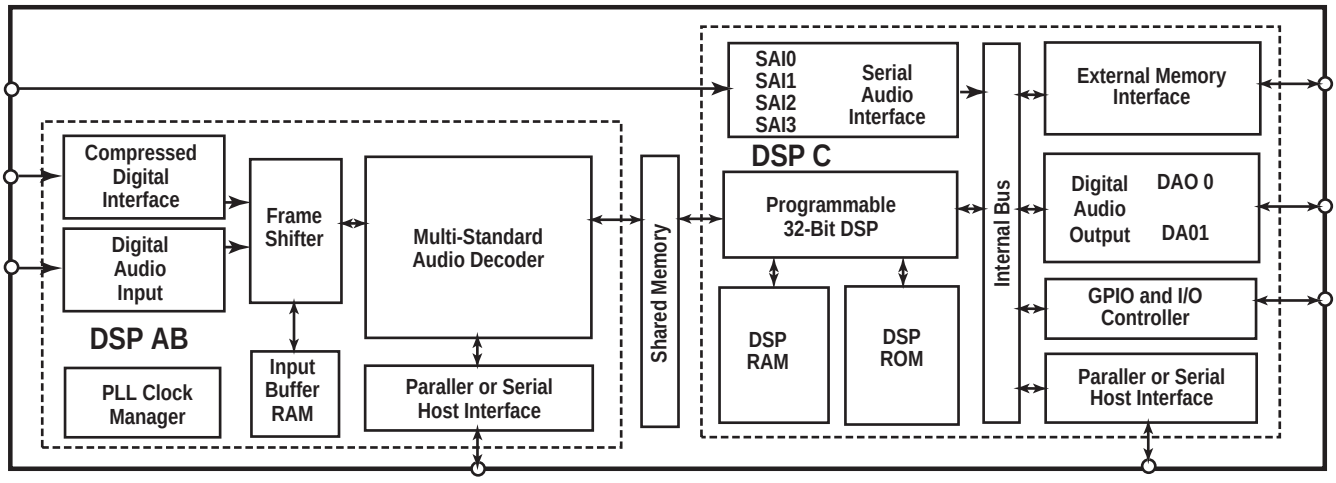
TERMINAL DESCRIPTION

No.	Pin Name	I/O	Function
1	MCLK	I	Master Clock Input Pin An external TTL clock should be input on this pin.
2	BICK	I	Audio Serial Data Clock Pin
3	SDTI	I	Audio Serial Data Input Pin
4	LRCK	I	L/R Clock Pin
5	PDN	I	Power -Down Mode Pin When at "L", the AK4384 is in the power-down mode and is held in reset. The AK4384 should always be reset upon power-up.
6	SMUTE	I	Soft Mute Pin in parallel mode "H": Enable,"L": Disable
	CSN	I	Chip Select Pin in serial mode
7	ACKS	I	Auto Setting Mode Pin in parallel mode "L": Manual Setting Mode, "H": Auto Setting Mode
	CCLK	I	Control Data Clock Pin in serial mode
8	DIF0	I	Audio Data Interface Format Pin in parallel mode
	CDTI	I	Control Data Input Pin in serial mode
9	P/S	I	Parallel/Serial Select Pin (Internal pull-up pin) "L": Serial control mode,"H": Parallel control mode
10	AOUTR	O	Rch Analog Output Pin
11	AOUTL	O	Lch Analog Output Pin
12	VCOM	O	Common Voltage Pin, VDD/2 Normally connected to VSS with a 0.1mF ceramic capacitor in parallel with a 10 m F electrolytic cap.
13	VSS	-	Ground Pin
14	VDD	-	Power Supply Pin
15	DZFR	O	Rch Data Zero Input Detect Pin
16	DZFL	O	Lch Data Zero Input Detect Pin

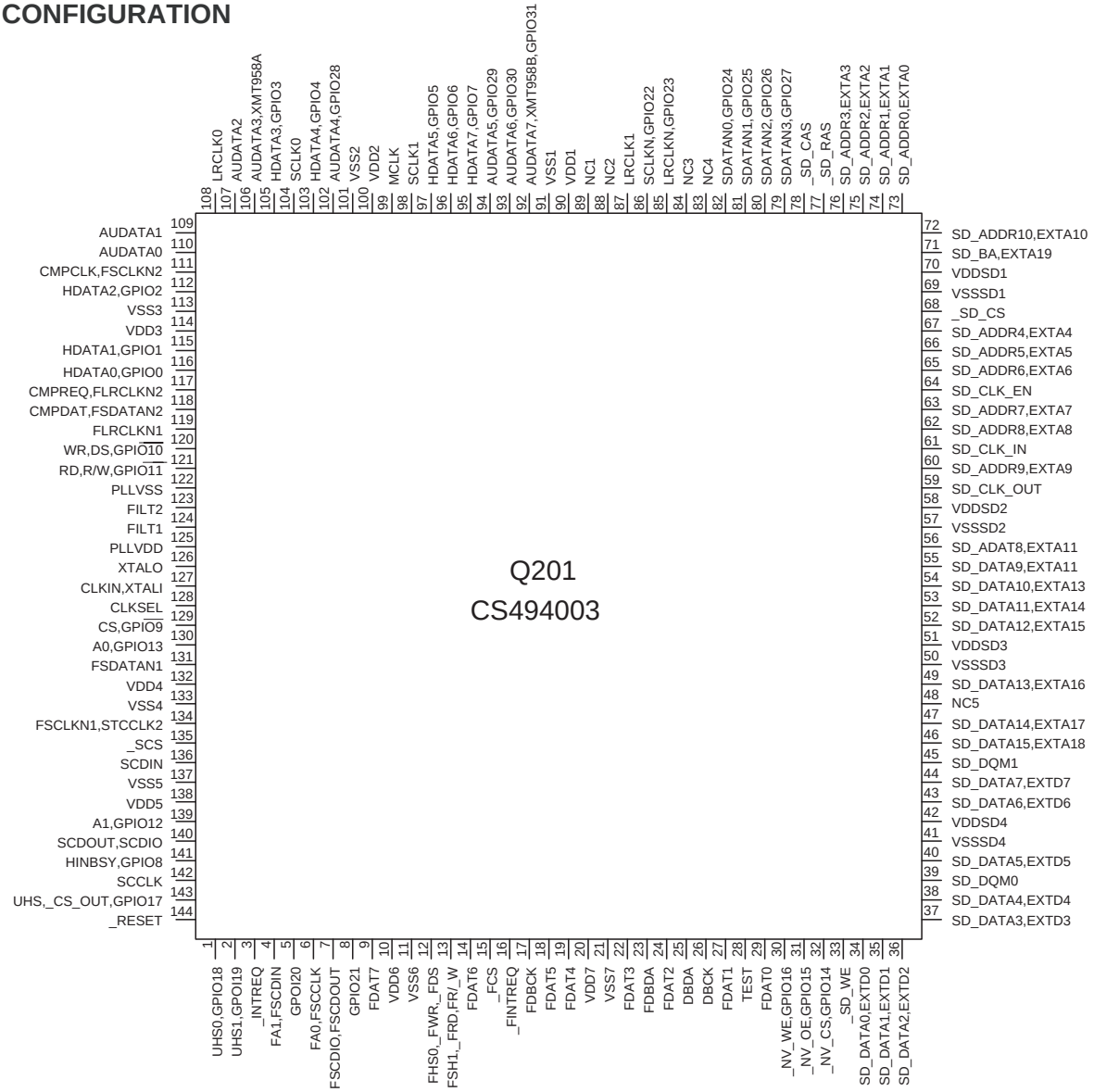
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -5

Q201: CS494003 (DSP)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -6

Q201: CS494003 (DSP)

TERMINAL DESCRIPTION (1/3)

PIN NO.	TERMINAL NAME : DESCRIPTION
1	UHS0, GPIO18: DSPC control mode select Bit 0, General Purpose I/O
2	UHS1, GPIO19: DSPC control mode select Bit 1, General Purpose I/O
3	INTREQ: Control Port Interrupt Request
4	FA1, FSCDIN: Host parallel address bit zero or SPI rerial control data input
5	GPIO20: General Purpose I/O can be individually configured and controlled by DSPC.
6	FAO, FSCCLK: Host Parallel Address Bit Zero or Serial Control Port Clock
7	FHS2, FSCDIO, FSCDOUT: Mode select bit 2 or serial control port data input and output,parallel porttype select
8	GPIO21: General Purpose I/O can be individually configured and controlled by DSPC.
9	FDAT7: DSPAB Bidirectional Data Bus input
10	VDD6: 2.5V supply voltage.
11	VSS6: 2.5V ground.
12	FHS0, FWR, FDS: Mode select bit 0 or host write strobe or host data strobe
13	FHS1, FRD, FR/W: Mode select bit 1 or host parallel output enable or host parallel R/W
14	FDAT6: DSPAB Bidirectional Data Bus input
15	FCS: Host parallel chip select,Host serial SPI chip select
16	FINTREQ: Control port interrupt request
17	FDBCK: Reversed input:This pin is reversed and is pulled up with an external resistor.
18	FDAT5: DSPAB Bidirectional Data Bus input
19	FDAT4: DSPAB Bidirectional Data Bus input
20	VDD7: 2.5V supply voltage.
21	VSS7: 2.5V ground.
22	FDAT3: DSPAB Bidirectional Data Bus input
23	FDBDAReversed input: This pin is reversed and is pulled up with an external resistor.
24	FDAT2: DSPAB Bidirectional Data Bus input
25	DBDA: Debug data
26	DBCK: Debug clock
27	FDAT1: DSPAB Bidirectional Data Bus input
28	TEST: This pin is connected low for normal operation.
29	FDAT0: DSPAB Bidirectional Data Bus input
30	NV_WE, GPIO16: SRAM write enable output, General Purpose I/O
31	NV_OE, GPIO15: SRAM output Enable output, General Purpose I/O
32	NV_CS, GPIO14: SRAM Chip Select output, General Purpose I/O
33	SD_WE : SDRAM write enable output.
34	SD_DATA0, EXTD0: SDRAM data bus. SRAM external data bus input.
35	SD_DATA1, EXTD1: SDRAM data bus. SRAM external data bus input.
36	SD_DATA2, EXTD2: SDRAM data bus. SRAM external data bus input.
37	SD_DATA3, EXTD3: SDRAM data bus. SRAM external data bus input.
38	SD_DATA4, EXTD4: SDRAM data bus. SRAM external data bus input.
39	SD_DQM0: SDRAM data mask 0 output.
40	SD_DATA5, EXTD5: SDRAM data bus. SRAM external data bus input.
41	VSSSD4: 3.3V SDRAM / SRAM / EPROM Interface ground.
42	VDDSD4: 3.3V SDRAM / SRAM / EPROM Interface supply
43	SD_DATA6, EXTD6: SDRAM data bus. SRAM external data bus input.
44	SD_DATA7, EXTD7: SDRAM data bus. SRAM external data bus input.
45	SD_DQM1: SDRAM data mask 1 output.
46	SD_DATA15, EXTA18: SDRAM data bus output, SRAM external address bus output
47	SD_DATA14, EXTA17: SDRAM data bus output, SRAM external address bus output
48	NC5: No connect. Connect to ground.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -7

Q201: CS494003 (DSP)

TERMINAL DESCRIPTION (2/3)

PIN NO.	TERMINAL NAME/DESCRIPTION
49	SD_DATA13, EXTA16: SDRAM data bus output, SRAM external address bus output
50	VSSSD3: 3.3V SDRAM / SRAM / EPROM Interface ground.
51	VDDSD3: 3.3V SDRAM / SRAM / EPROM Interface supply
52	SD_DATA12, EXTA15: SDRAM data bus output, SRAM external address bus output
53	SD_DATA11, EXTA14: SDRAM data bus output, SRAM external address bus output
54	SD_DATA10, EXTA13: SDRAM data bus output, SRAM external address bus output
55	SD_DATA9, EXTA12: SDRAM data bus output, SRAM external address bus output
56	SD_DATA8, EXTA11: SDRAM data bus output, SRAM external address bus output
57	VSSSD2: 3.3V SDRAM / SRAM / EPROM Interface ground.
58	VDDSD2: 3.3V SDRAM / SRAM / EPROM Interface supply
59	SD_CLK_OUT: SDRAM clock output.
60	SD_ADDR9, EXTA9: SDRAM address bus output. SRAM external address output.
61	SD_CLK_IN: SDRAM re-timing clock input.
62	SD_ADDR8, EXTA8: SDRAM address bus output. SRAM external address output.
63	SD_ADDR7, EXTA7: SDRAM address bus output. SRAM external address output.
64	SD_CLK_EN: SDRAM clock enable output.
65	SD_ADDR6, EXTA6: SDRAM address bus output. SRAM external address output.
66	SD_ADDR5, EXTA5: SDRAM address bus output. SRAM external address output.
67	SD_ADDR4, EXTA4: SDRAM address bus output. SRAM external address output.
68	SD_CS: SDRAM Chip select
69	VSSSD1: 3.3V SDRAM / SRAM / EPROM Interface ground.
70	VDDSD1: 3.3V SDRAM / SRAM / EPROM Interface supply
71	SD_BA, EXTA19: SDRAM bank address select, SRAM external address bus 19.
72	SD_ADDR10, EXTA10: SDRAM address bus output. SRAM external address output.
73	SD_ADDR0, EXTA0: SDRAM address bus output. SRAM external address output.
74	SD_ADDR1, EXTA1: SDRAM address bus output. SRAM external address output.
75	SD_ADDR2, EXTA2: SDRAM address bus output. SRAM external address output.
76	SD_ADDR3, EXTA3: SDRAM address bus output. SRAM external address output.
77	SD_RAS: SDRAM row address strobe output.
78	SD_CAS: DRAM column address strobe output.
79	SDATAN3, GPIO27: Digital-audio PCM data input. General purpose I/O
80	SDATAN2, GPIO26: Digital-audio PCM data input. General purpose I/O
81	SDATAN1, GPIO25: Digital-audio PCM data input. General purpose I/O
82	SDATAN0, GPIO24: Digital-audio PCM data input. General purpose I/O
83	NC4: No connect. Connect to ground.
84	NC3: No connect. Connect to ground.
85	LRCLKN, GPIO23: PCM Audio Input Sample Rate Clock, General Purpose I/O
86	SCLKN, GPIO22: PCM Audio Input Bit Clock, General Purpose I/O
87	LRCLK1: Audio Output Sample Rata Clock
88	NC2: No connect. Connect to ground.
89	NC1: No connect. Connect to ground.
90	VDD1: 2.5V supply voltage.
91	VSS1: 2.5V ground
92	AUDATA7, XMT958B, GPIO31: PCM digital-audio data output 7, S/PDIF Transmitter, General Purpose I/O
93	AUDATA6, GPIO30: PCM digital-audio data output 6, General Purpose I/O
94	AUDATA5, GPIO29: PCM digital-audio data output 5, General Purpose I/O
95	HDATA7, GPIO7: DSPC Bidirectional Data Bus, General Purpose I/O
96	HDATA6, GPIO6: DSPC Bidirectional Data Bus, General Purpose I/O

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -8

Q201: CS494003 (DSP)

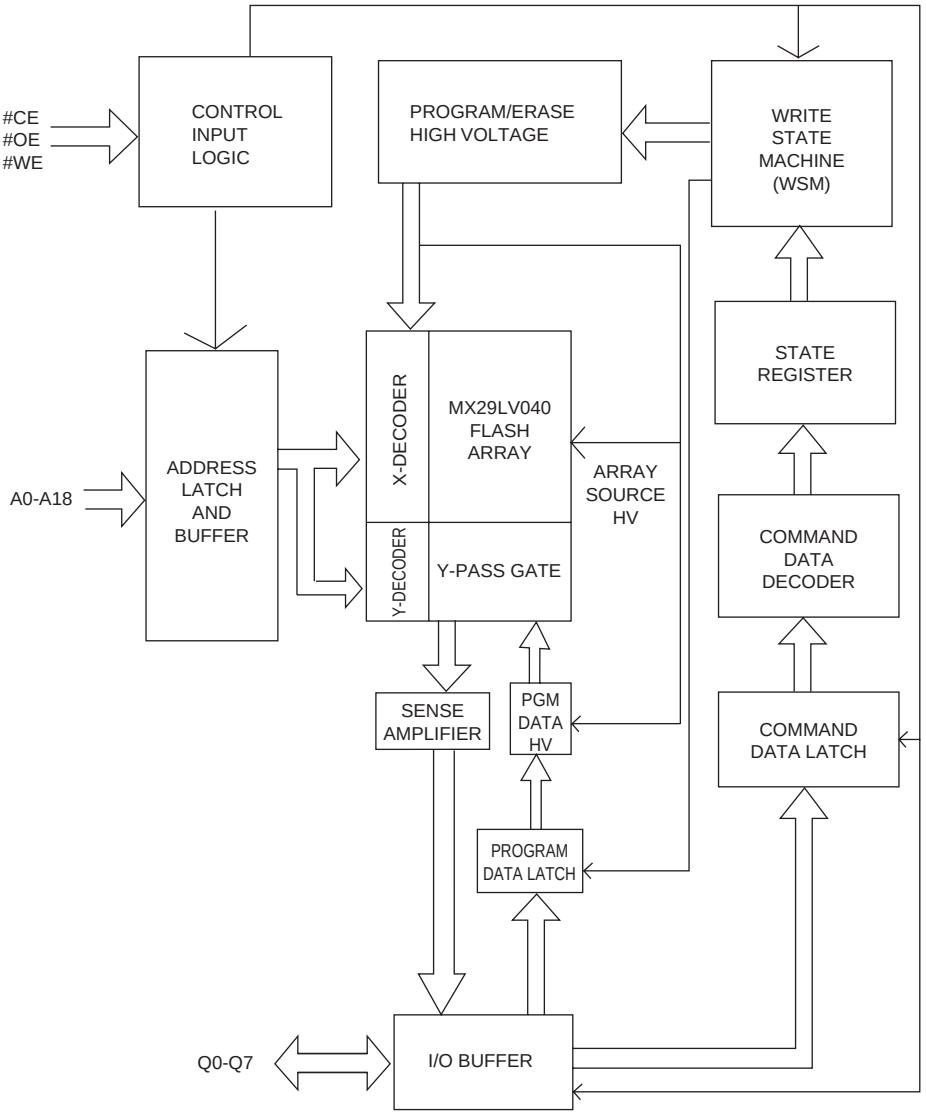
TERMINAL DESCRIPTION (3/3)

PIN NO.	TERMINAL NAME/DESCIPTION
97	HDATA5, GPIO5: DSPC Bidirectional Data Bus, General Purpose I/O
98	SCLK1: Audio Output Bit Clock:Bidirectional digital-audio output bit clock for AUDATA4, to AUDATA7.
	As an output, SCLK1 can provide 32 fs, 64 fs, 128 fs, 256 fs, or 512 fs frequencies and is synchronous to MCLK.
99	MCLK: Bidirectional master audio clock. As an output, MCLK provides a low jitter oversampling clock.
100	VDD2: 2.5V supply voltage.
101	VSS2: 2.5V ground.
102	AUDATA4, GPIO28: Digital Audio Output 4, General Purpose I/O.PCM digital-audio data output.
103	HDATA4, GPIO4: DSPC Bidirectional Data Bus, General Purpose I/O
104	SCLK0: Audio Output Bit Clock:Bidirectional digital-audio output bit clock for AUDATA0, to AUDATA3.
105	HDATA3, GPIO3: DSPC Bidirectional Data Bus, General Purpose I/O
106	AUDATA3, XMT958A: Digital Audio Output 3, S/PDIF Transmitter
107	AUDATA2: PCM digital-audio data output.
108	LRCLK0: Audio Output Sample Rate Clock
109	AUDATA1: PCM digital-audio data output.
110	AUDATA0: PCM digital-audio data output.
111	CMPCLK, FSCLKN2: PCM Audio Input Bit Clock:Digital- audio bit clock input.
112	HDATA2, GPIO2: DSPC Bidirectional Data Bus, General Purpose I/O
113	VSS3: 2.5V ground.
114	VDD3: 2.5V supply voltage.
115	HDATA1, GPIO1: DSPC Bidirectional Data Bus, General Purpose I/O
116	HDATA0, GPIO0: DSPC Bidirectional Data Bus, General Purpose I/O
117	CMPREQ, FLRCLKN2: PCM audio input request
118	CMPDAT, FSDATAN2: Digital-audio data input that can accept either 1 compressed line or 2 channels of PCM data.
119	FLRCLKN1: Digital-audio frame clock input.
120	WR, DS, GPIO10: Host Write Strobe, Host Data Strobe, General Purpose I/O
121	RD, R/W, GPIO11: Host Parallel Output Enable, Host Parallel R/W, General Purpose I/O
122	PLLVSS : PLL Ground Voltage
123	FILT2: Phase-Locked Loop Filter.Connects to an external filter for the phase-locked loop.
124	FILT1: Phase-Locked Loop Filter.Connects to an external filter for the phase-locked loop.
125	PLLVDD: 2.5V PLL supply voltage.
126	XTALO: Crystal oscillator output.
127	CLKIN, XTALI: External Clock input / Crystal Oscillator input:12MHz crystal oscillator is connected.
128	CLKSEL: DSP Clock select input
129	CS, GPIO9: Host Parallel Chip Select, General Purpose I/O
130	A0, GPIO13: Host Address Bit 0, General Purpose I/O
131	FSDATAN1: Digital-audio data input can accept from one compressed line or 2 channels of PCM data.
132	VDD4: 2.5V supply voltage.
133	VSS4: 2.5V ground.
134	FSCLKN1, STCCLK2: Digital audio bit clock input.
135	SCS: Host Serial SPI Chip Select:SPI mode active-low chip-select input signal.
136	SCDIN: SPI Serial Control Data Input:In SPI mode this pin serves as the data input pin.
137	VSS5: 2.5V ground.
138	VDD5: 2.5V supply voltage.
139	A1, GPIO12: Host Address Bit 1, General Purpose I/O
140	SCDOUT, SCDIO: Serial Control Port Data Input and Output:In SPI mode this pin serves as the data output pin.
141	HINBSY, GPIO8: Input host Message Status, General Purpose I/O. This pin is indicates that serial
	or parallel communication data written to the DSP has not been read yet.
142	SCCLK: This pin serves as the serial SPI clock input.
143	UHS2, CS_OUT, GPIO17: Mode Select Bit 2, External Serial Memory Chip Select,General Purpose I/O
144	RESET: Master Reset Input:Asynchronous active-low master reset input.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -9

Q211: MX26LV040 (4M-bit CMOS Single Voltage 3V High Speed Flash Memory)

BLOCK DIAGRAM



PIN CONFIGURATION

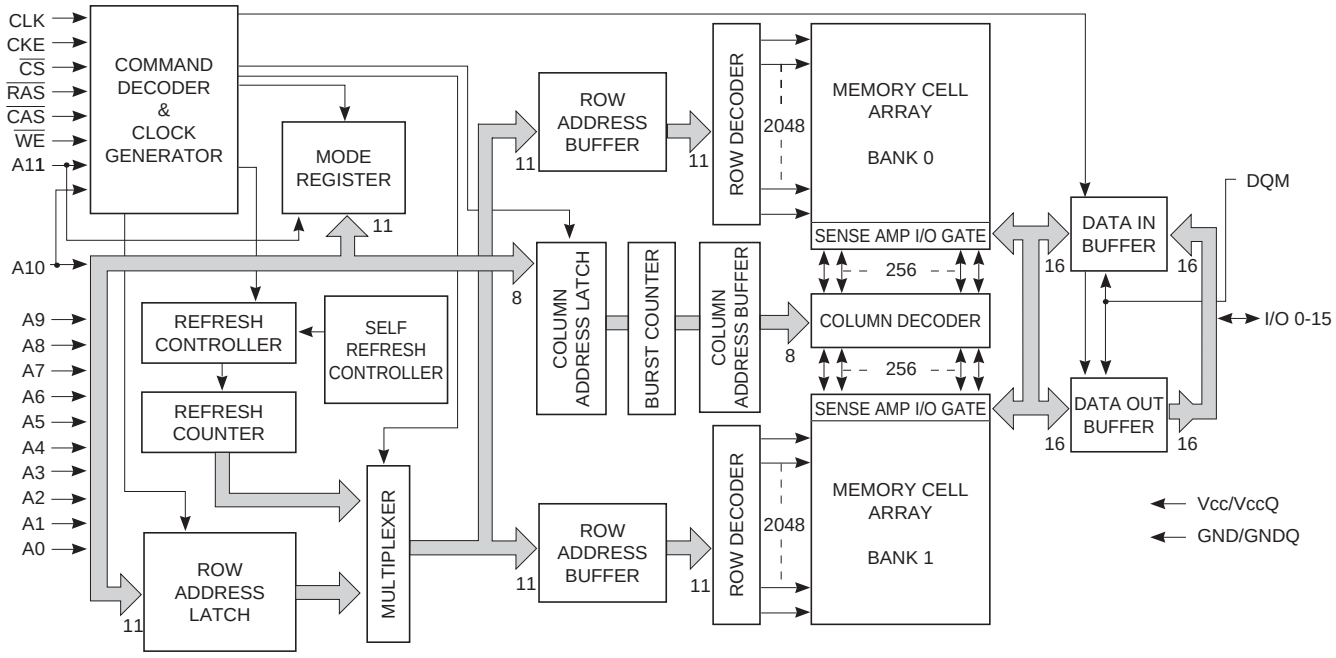
TERMINAL DESCRIPTION

Pin Name	Description
A0~A18	Address Input
Q0~Q7	Data Input/Output
CE#	Chip Enable Input
WE#	Write Enable Input
OE#	Output Enable Input
GND	Ground Pin
VCC	+3.0V single power supply

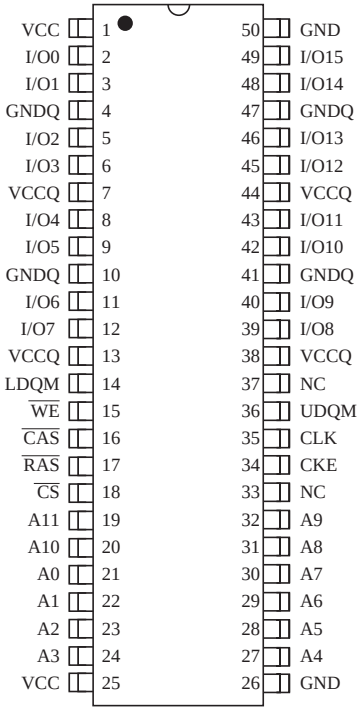
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -10

Q285: IC42S16100 (16-Mbit Synchronous Dynamic RAM)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS -11

Q285: IC42S16100 (16-Mbit Synchronous Dynamic RAM)

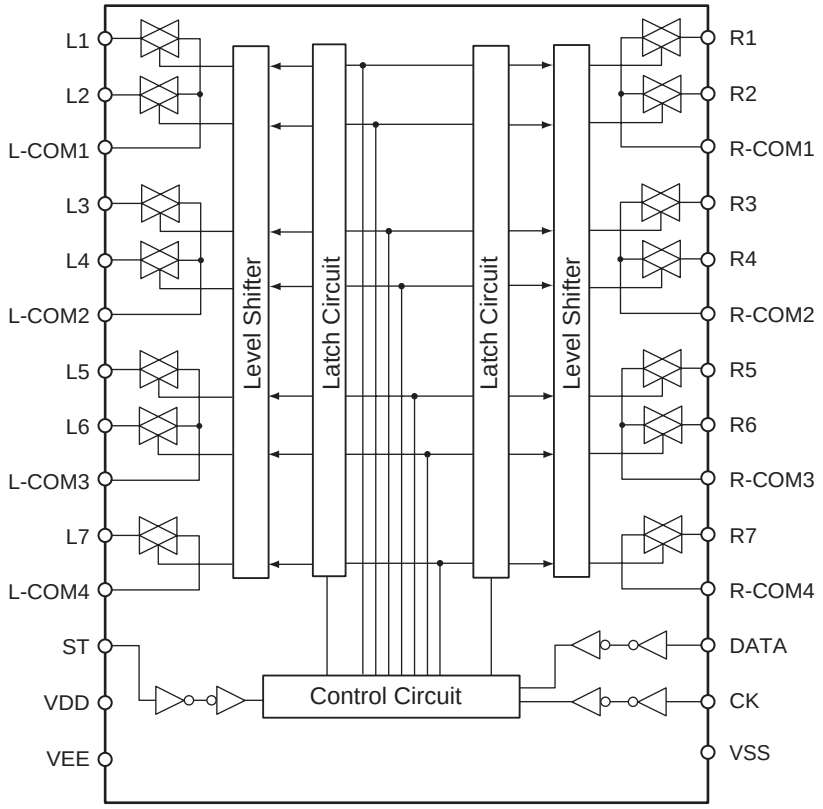
TERMINAL DESCRIPTION

Pin No.	Pin name	Function
20 to 24 27 to 32	A0-A10	A0 to A10 are address inputs. A0-A10 are used as row address inputs during active command input and A0-A7 as column address inputs during read or write command input. A10 is also used to determine the precharge mode during other commands. If A10 is LOW during precharge command, the bank selected by A11 is precharged, but if A10 is HIGH, both banks will be precharged. When A10 is HIGH in read or write command cycle, the precharge starts automatically after the burst access. These signals become part of the OP CODE during mode register set command input.
19	A11	A11 is the bank selection signal. When A11 is LOW, bank 0 is selected and when high, bank 1 is selected. This signal becomes part of the OP CODE during mode register set command input.
16	$\overline{CAS}$	$\overline{CAS}$, in conjunction with the $\overline{RAS}$ and $\overline{WE}$, forms the device command. See the "Command Truth Table" item for details on device commands.
34	CKE	The CKE input determines whether the CLK input is enabled within the device. When is CKE HIGH, the next rising edge of the CLK signal will be valid, and when LOW, invalid. When CKE is LOW, the device will be in either the power-down mode, the clock suspend mode, or the self refresh mode. The CKE is an asynchronous input.
35	CLK	CLK is the master clock input for this device. Except for CKE, all inputs to this device are acquired in synchronization with the rising edge of this pin.
18	$\overline{CS}$	The $\overline{CS}$ input determines whether command input is enabled within the device. Command input is enabled when $\overline{CS}$ is LOW, and disabled with $\overline{CS}$ is HIGH. The device remains in the previous state when $\overline{CS}$ is HIGH.
2, 3, 5, 6, 8, 9, 11, 12, 39, 40, 42, 43, 45, 46, 48, 49	I/O0 to I/O15	I/O0 to I/O15 are I/O pins. I/O through these pins can be controlled in byte units using the LDQM and UDQM pins.
14, 36	LDQM, UDQM	LDQM and UDQM control the lower and upper bytes of the I/O buffers. In read mode, LDQM and UDQM control the output buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and when HIGH, disabled. The outputs go to theHIGH impedance state when LDQM/UDQM is HIGH. This function corresponds to $\overline{OE}$ in conventional DRAMs. In write mode, LDQM and UDQM control the input buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and data can be written to the device. When LDQM or UDQM is HIGH, input data is masked and cannot be written to the device.
17	$\overline{RAS}$	$\overline{RAS}$, in conjunction with $\overline{CAS}$ and $\overline{WE}$, forms the device command. See the "Command Truth Table" item for details on device commands.
15	$\overline{WE}$	$\overline{WE}$, in conjunction with $\overline{RAS}$ and $\overline{CAS}$, forms the device command. See the "Command Truth Table" item for details on device commands.
7, 13, 38, 44	$V_{CC}Q$	$V_{CC}Q$ is the output buffer power supply.
1, 25	V_{CC}	V_{CC} is the device internal power supply.
4, 10, 41, 47	GNDQ	GNDQ is the output buffer ground.
26, 50	GND	GND is the device internal ground.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -12

Q3002: NJU7311AM (Analog Function Switch)

BLOCK DIAGRAM



TERMINAL DESCRIPTION

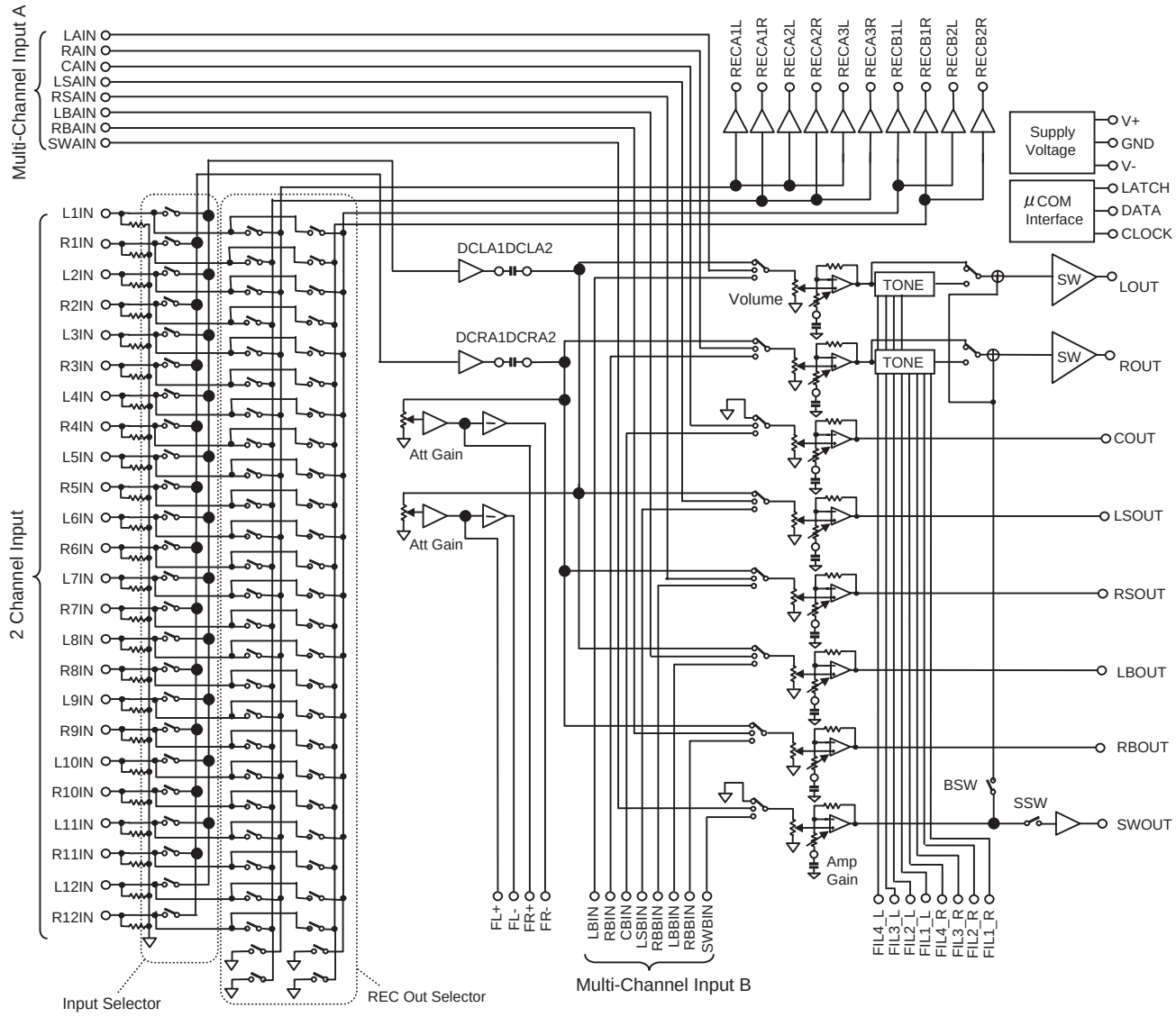
Pin No.	Pin Name	Description
1	VEE	Negative Voltage Supply
2	L1	Analog switch input/output
3	L2	Analog switch input/output
4	L-COM1	L1, L2, Common
5	L3	Analog switch input/output
6	L4	Analog switch input/output
7	L-COM2	L3, L4 common
8	L5	Analog switch input/output
9	L6	Analog switch input/output
10	L-COM3	L5, L6 Common
11	L7	Analog switch input/output
12	L-COM4	L7 Common
14	ST	Chip enable
15	VSS	GND

Pin No.	Pin Name	Description
16	CK	Clock input
17	DATA	Data input
19	R-COM4	R7 Common
20	R7	Analog switch input/output
21	R-COM3	R5, R6 Common
22	R6	Analog switch input/output
23	R5	Analog switch input/output
24	R-COM2	R3, R4 Common
25	R4	Analog switch input/output
26	R3	Analog switch input/output
27	R-COM1	R1, R2, Common
28	R2	Analog switch input/output
29	R1	Analog switch input/output
30	VDD	Positive voltage supply

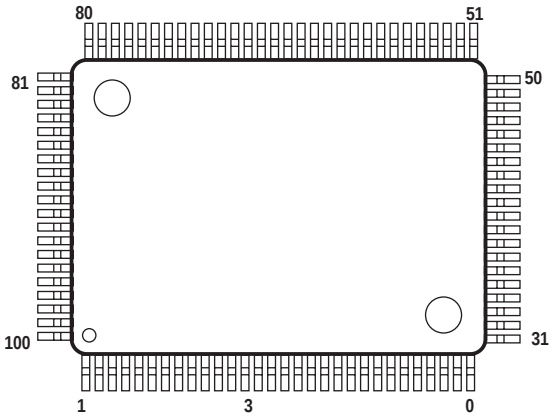
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -13

Q3003: NJW1157(8-CHANNEL ELECTRONIC VOLUME WITH INPUT SELECTOR)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -14

Q3003: NJW1157(8-CHANNEL ELECTRONIC VOLUME WITH INPUT SELECTOR)

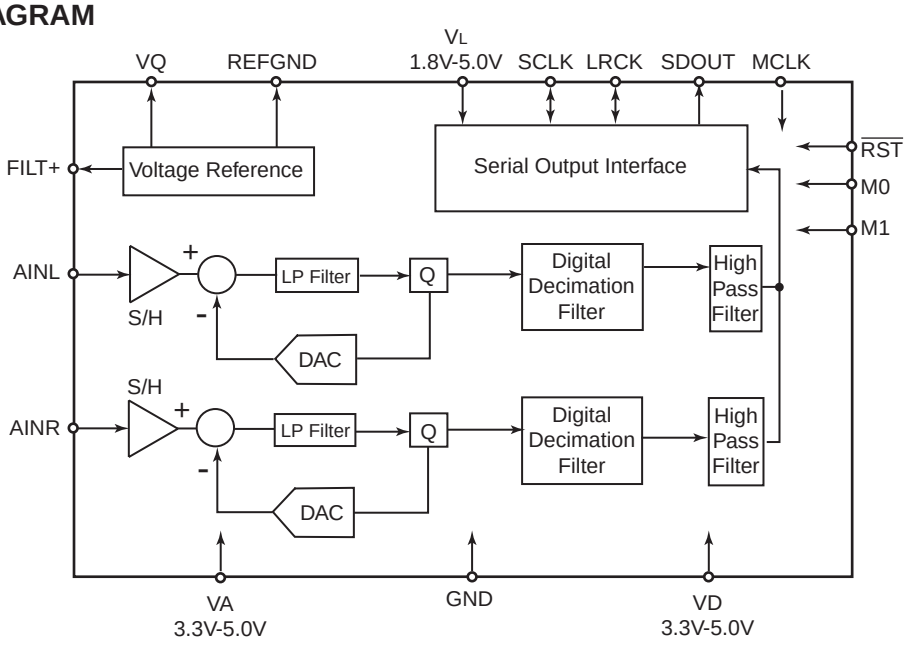
TERMINAL DESCRIPTON

No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	LOUT	Lch output	51	L1IN	"Input selector" Lch input 1
2	ROUT	Rch output	52	R1IN	"Input selector" Rch input 1
3	COUT	Cch output	53	L2IN	"Input selector" Lch input 2
4	LSOUT	LSch output	54	R2IN	"Input selector" Rch input 2
5	RSOUT	RSch output	55	L3IN	"Input selector" Lch input 3
6	LBOUT	LBch output	56	R3IN	"Input selector" Rch input 3
7	RBOUT	RBch output	57	L4IN	"Input selector" Lch input 4
8	SWOUT	SWch output	58	R4IN	"Input selector" Rch input 4
9	DC_L1	Lch Bass filter DC cut capacitor output terminal	59	L5IN	"Input selector" Lch input 5
10	DC_L2	Lch Bass filter DC cut capacitor input terminal	60	R5IN	"Input selector" Rch input 5
11	FIL_BL	Lch Bass filter terminal	61	L6IN	"Input selector" Lch input 6
12	FIL_TL	Lch Treble filter terminal	62	R6IN	"Input selector" Rch input 6
13	DC_R1	Rch Bass filter DC cut capacitor output terminal	63	L7IN	"Input selector" Lch input 7
14	DC_R2	Rch Bass filter DC cut capacitor input terminal	64	R7IN	"Input selector" Rch input 7
15	FIL_BR	Rch Bass filter terminal	65	L8IN	"Input selector" Lch input 8
16	FIL_TR	Rch Treble filter terminal	66	R8IN	"Input selector" Rch input 8
17	N.C.	No Connect	67	L9IN	"Input selector" Lch input 9
18	N.C.	No Connect	68	R9IN	"Input selector" Rch input 9
19	V+	+ Power supply voltage input	69	L10IN	"Input selector" Lch input 10
20	V-	- Power supply voltage input	70	R10IN	"Input selector" Rch input 10
21	REC_A1L	"Input selector" Lch REC output A1	71	L11IN	"Input selector" Lch input 11
22	REC_A1R	"Input selector" Rch REC output A1	72	R11IN	"Input selector" Rch input 11
23	REC_A2L	"Input selector" Lch REC output A2	73	L12IN	"Input selector" Lch input 12
24	REC_A2R	"Input selector" Rch REC output A2	74	R12IN	"Input selector" Rch input 12
25	REC_A3L	"Input selector" Lch REC output A3	75	N.C.	No Connect
26	REC_A3R	"Input selector" Rch REC output A3	76	DGND	Digital Ground
27	REC_B1L	"Input selector" Lch REC output B1	77	DATA	Control data signal input
28	REC_B1R	"Input selector" Rch REC output B1	78	CLOCK	Clock signal input
29	REC_B2L	"Input selector" Lch REC output B2	79	LATCH	Latch signal input
30	REC_B2R	"Input selector" Rch REC output B2	80	LAIN	Multi-channel Lch input A
31	DCCAP_L	Switching noise rejection capacitor	81	RAIN	Multi-channel Rch input A
32	DCCAP_R	Switching noise rejection capacitor	82	CAIN	Multi-channel Cch input A
33	DCCAP_C	Switching noise rejection capacitor	83	LSAIN	Multi-channel LSch input A
34	GND	Ground	84	RSAIN	Multi-channel RSch input A
35	GND	Ground	85	LBAIN	Multi-channel LBch input A
36	DCCAP_LS	Switching noise rejection capacitor	86	RBAIN	Multi-channel RBch input A
37	DCCAP_RS	Switching noise rejection capacitor	87	SWAIN	Multi-channel SWch input A
38	DCCAP_LB	Switching noise rejection capacitor	88	LBIN	Multi-channel Lch input B
39	DCCAP_RB	Switching noise rejection capacitor	89	RBIN	Multi-channel Rch input B
40	DCCAP_SW	Switching noise rejection capacitor	90	CBIN	Multi-channel Cch input B
41	DCL_OUT	"Input selector" Lch output	91	LSBIN	Multi-channel LSch input B
42	DCL_IN	"Multi-channel selector" Lch input	92	RSBIN	Multi-channel RSch input B
43	DCR_OUT	"Input selector" Rch output	93	LBBIN	Multi-channel LBch input B
44	DCR_IN	"Multi-channel selector" Rch input	94	RBBIN	Multi-channel RBch input B
45	FL+	"Input selector gain control" Lch no-inverted output	95	SWBIN	Multi-channel SWch input B
46	FL-	"Input selector gain control" Lch inverted output	96	GND	Ground
47	FR+	"Input selector gain control" Rch no-inverted output	97	GND	Ground
48	FR-	"Input selector gain control" Rch inverted output	98	VSSOUT2	Internal Digital -Power Supply Output 2
49	VDDOUT	Internal Digital +Power Supply Output	99	VDDOUT2	Internal Digital +Power Supply Output 2
50	VSSOUT	Internal Digital -Power Supply Output	100	TCCAP	Switching noise rejection capacitor

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -15

Q331,341,351: CS5340-CZ (192kHz, Multi-Bit Audio A/D Converter)

BLOCK DIAGRAM



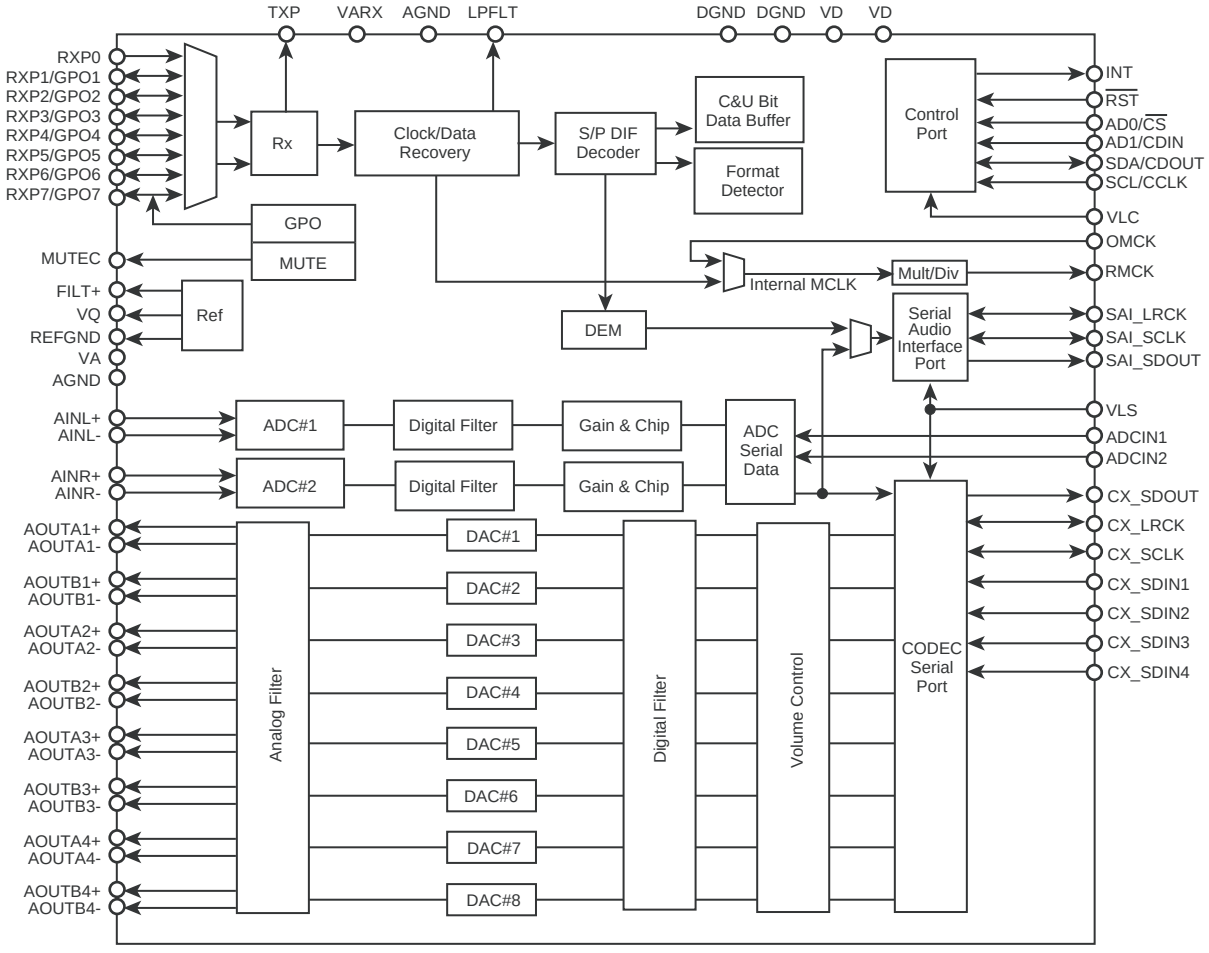
TERMINAL DESCRIPTION

Pin	Pin Name	I/O	Description
1	M0	I	Mode Selection-Determines the operational mode of the device.
16	M1	I	
2	MCLK	I	Master Clock-Clock source for the delta-sigma modulator and digital filters.
3	VL		Logic Power-Positive power supply for digital input/output.
4	SDOUT	O	Serial Audio Data Output-Output for two's complement serial audio data.
5,14	GND		Ground-Connect to the analog ground.
6	VD	I	Digital Power-Positive power supply for the digital section.
7	SCLK	I/O	Serial Clock-Serial clock for the serial audio interface.
8	LRCK	I/O	Left Right Clock-Determines which channel, Left and Right, is currently active on the serial audio data line.
9	RST	I	Reset-The device enters a low power mode when low.
10 12	AINL AINR	I I	Analog Input-The full scale analog input level is 0.56Vp-p.
11	VQ	O	Quiescent Voltage-Filter connection for the internal quiescent reference voltage.
13	VA		Analog Power-Positive power supply for the analog section.
15	FILT+	O	Positive Voltage Reference-Positive reference voltage for the internal sampling circuits.

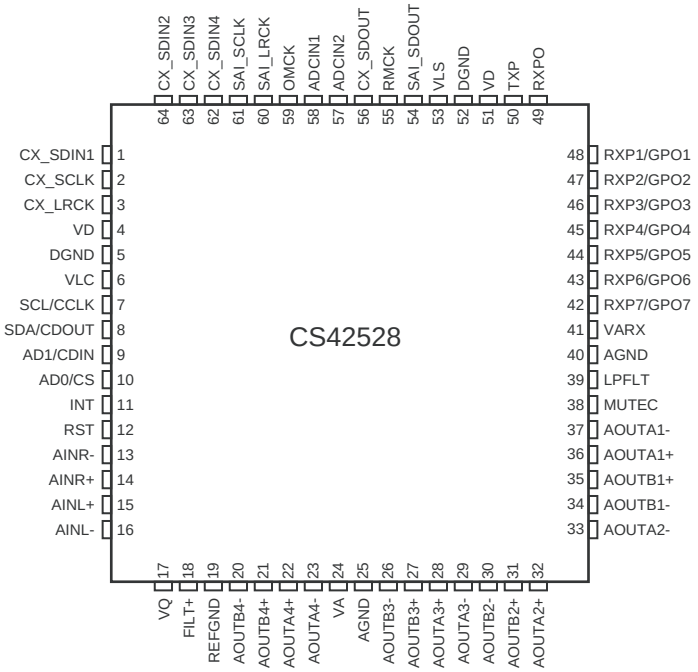
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -16

Q361: CS42528 (8-Ch CODEC with S/PDIF Receiver)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -17

Q361: CS42528 (8-Ch CODEC with S/PDIF Receiver)

TERMINAL DESCRIPTION (1/2)

Pin Name	#	Pin Description
CX_SDIN1 CX_SDIN2 CX_SDIN3 CX_SDIN4	1 64 63 62	Codec Serial Audio Data Input (Input) - Input for two's complement serial audio data.
CX_SCLK	2	CODEC Serial Clock (Input/Output) - Serial clock for the CODEC serial audio interface
CX_LRCK	3	CODEC Left Right Clock (Input/ Output) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	Digital Power (Input) - Positive power supply for the digital section.
DGND	5 52	Digital Ground (Input) - Ground reference. Connects to digital ground.
VLC	6	Control Port Power (Input) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock (Input) - Serial clock for the serial control port.
SDA/CDOUT	8	Serial Control Data (Input/Output) - SDA is a data I/O line in IC mode and requires an external pull-up resistor to the logic interface voltage. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I^2C)/Serial Control Data (SPI) (Input) - AD1 a chip address pin in I^2C mode; CDIN is the input data line for control port interface in SPI mode.
AD0/$\overline{CS}$	10	Address Bit 0 (I^2C)/Control Port Chip Select (SPI) (Input) - AD0 is a chip address pin in I^2C mode; CS is the chip select signal in SPI mode.
INT	11	Interrupt (Output) - The CS42528 will generate an interrupt condition as per the Interrupt Mask register.
$\overline{RST}$	12	Reset (Input) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL- AINL+	15 16	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
VQ	17	Quiescent Voltage (Output) - Filter connection for internal quiescent reference voltage.
FILT+	18	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
REFGND	19	Reference Ground (Input) - Ground reference for the internal sampling circuits.
AOUTA1 +, - AOUTB1 +, - AOUTA2 +, - AOUTB2 +, - AOUTA3 +, - AOUTB3 +, - AOUTA4 +, - AOUTB4 +, -	36, 37 35, 34 32, 33 31, 30 28, 29 27, 26 22, 23 21, 20	Differential Analog Output (Output) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	Analog Power (Input) - Positive power supply for the analog section.
AGND	25 40	Analog Ground (Input) - Ground reference. Connectes to analog ground.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -18

Q361: CS42528 (8-Ch CODEC with S/PDIF Receiver)

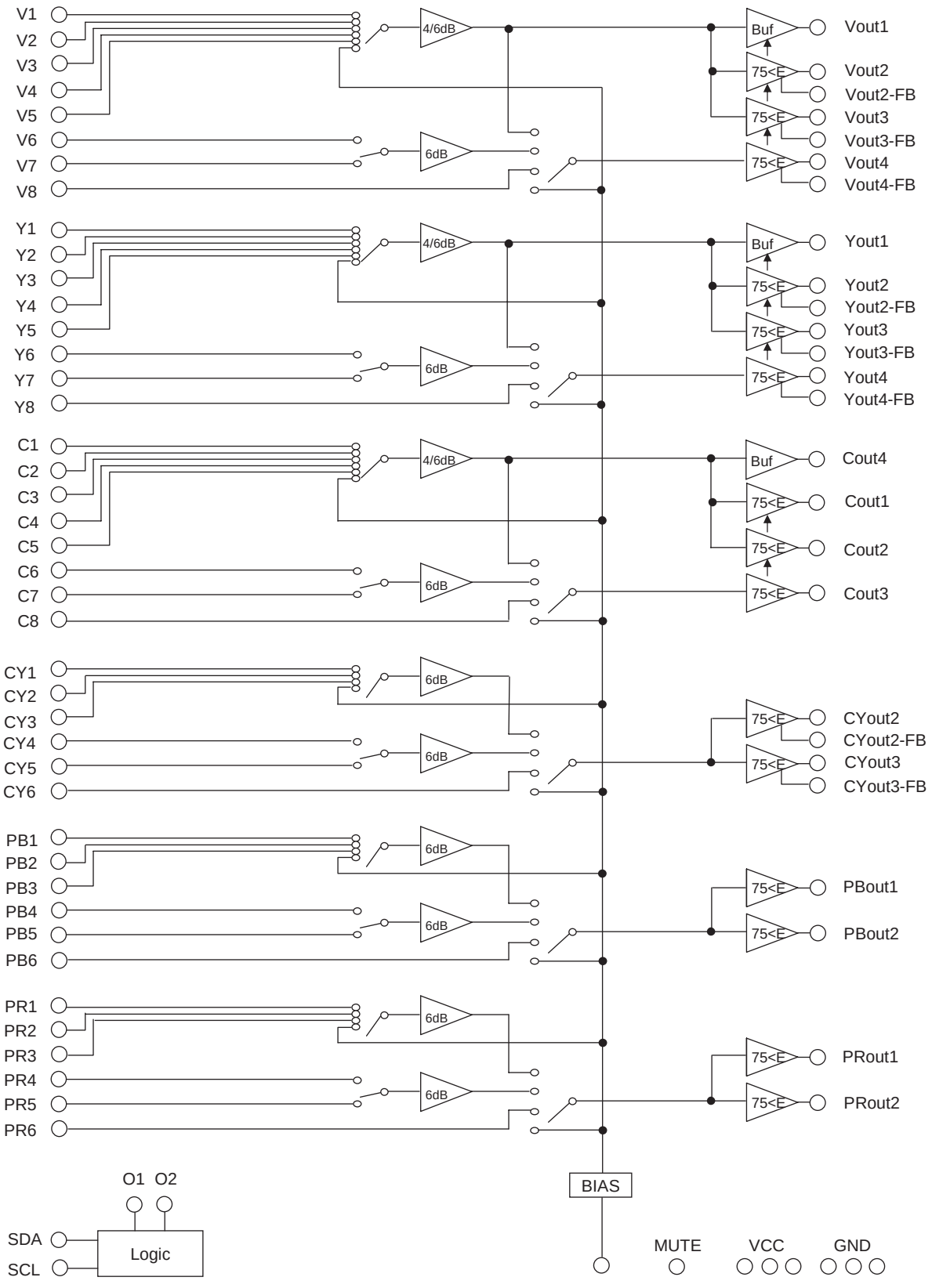
TERMINAL DESCRIPTION (2/2)

Pin Name	#	Pin Description
VA VARX	24 41	Analog Power (Input) - Positive power supply for the analog section.
AGND	25 40	Analog Ground (Input) - Ground reference. Connects to analog ground.
MUTEC	38	Mute Control (Output) - The Mute Control pin outputs high impedance following an initial power -on condition or whenever the PDN bit is set to a "1", forcing the codec into power -down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatoy but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	PLL Loop Filer (Output) - An RC network should be connected between this pin and ground.
RXP7/GPO7 RXP6/GPO6 RXP5/GPO5 RXP4/GPO4 RXP3/GPO3 RXP2/GPO2 RXP1/GPO1	42 43 44 45 46 47 48	S/PDIF Receiver Input/ General Purpose Output (Input/ Output) - Receiver inputs for S/PDIF encoded data. The CS42528 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 resister. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control resisters.
RXP0	49	S/PDIF Receiver Input (Input) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	S/PDIF Transmitter Output (Output) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 resister.
VLP	53	Serial Port Interface Power (Input) - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	Serial Audio Interface Serial Data Output (Output) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	Recovered Master Clock (Output) - Recovered master clock output from the External Clock Reference
CX_SDOUT	56	CODEC Serial Data Output (Output) - Output for two's complement serial audio data the internal and external ADCs.
ADCIN1 ADCIN2	58 57	External ADC Serial Input (Input) - The CS42528 provides for up two external stereo analog to digital converter inputs to provide a maximum of six channels on serial data output line when the CS42528 is placed in One Line mode.
OMCK	59	External Reference Clock (Input) - External clock reference that must be within the ranges specified in currently active on the serial audio data line.
SAI_LRCK	60	Serial Audio Interface Left/Right Clock (Input/Output) - Determines which channel, Left of Right, is currently active on the serial audio data line.
SAI_SCLK	61	Serial Audio Interface Serial Clock (Input/Output) - Serial clock for the Serial Audio Interface

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -19

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -20

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

TERMINAL DESCRIPTION (1/3)

Pin No.	Pin name	Type	Description
1	Y3	In	Luminance signal input 3
2	Y4	In	Luminance signal input 4
3	Y5	In	Luminance signal input 5
4	Y6	In	Luminance signal input 6
5	Y7	In	Luminance signal input 7
6	Y8	In	Luminance signal input 8
7	VCC1	Power supply	5.0V power supply
8	C1	In	Chrominance signal input 1
9	C2	In	Chrominance signal input 2
10	C3	In	Chrominance signal input 3
11	C4	In	Chrominance signal input 4
12	C5	In	Chrominance signal input 5
13	GND1	Ground	Ground
14	C6	In	Chrominance signal input 6
15	C7	In	Chrominance signal input 7
16	C8	In	Chrominance signal input 8
17	BIAS	Output	Bias voltage
18	CY1	In	CY1 signal input
19	CY2	In	CY2 signal input
20	CY3	In	CY3 signal input
21	CY4	In	CY4 signal input
22	CY5	In	CY5 signal input
23	CY6	In	CY6 signal input
24	PB1	In	PB1 signal input
25	PB2	In	PB2 signal input
26	PB3	In	PB3 signal input
27	PB4	In	PB4 signal input
28	PB5	In	PB5 signal input
29	PB6	In	PB6 signal input
30	PR1	In	PR1 signal input
31	PR2	In	PR2 signal input
32	PR3	In	PR3 signal input
33	PR4	In	PR4 signal input
34	PR5	In	PR5 signal input
35	PR6	In	PR6 signal input

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -21

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

TERMINAL DESCRIPTION (2/3)

Pin No.	Pin name	Type	Description
36	MUTE	In	Mute control pin
37	PROUT2	Out	PROUT2 signal output
38	O1	Out	General output 1
39	PROUT1	Out	PROUT1 signal output
40	O2	Out	General output 2
41	PBOUT2	Out	PBOUT2 signal output
42	PBOUT1	Out	PBOUT1 signal output
43	GND2	Ground	Ground
44	CYOUT3-FB	In	CYOUT3 feedback input
45	CYOUT3	Out	CYOUT3 signal output
46	CYOUT2-FB	In	CYOUT2 feedback input
47	CYOUT2	Out	CYOUT2 signal output
48	COUT4	Out	COUT4 signal output
49	VCC2	Power supply	5.0V power supply
50	COUT3	Out	COUT3 signal output
51	COUT2	Out	COUT2 signal output
52	COUT1	Out	COUT1 signal output
53	GND3	Ground	Ground
54	YOUT4-FB	In	YOUT4 feedback input
55	YOUT4	Out	YOUT4 signal output
56	YOUT3-FB	In	YOUT3 feedback input
57	YOUT3	Out	YOUT3 signal output
58	YOUT2-FB	In	YOUT2 feedback input
59	YOUT2	Out	YOUT2 signal output
60	YOUT1	Out	YOUT1 signal output
61	VCC3	Power supply	5.0V power supply
62	VOUT4-FB	In	VOUT4 feedback input
63	VOUT4	Out	VOUT4 signal output
64	SDA	In	I^2C bus data input
65	VOUT3-FB	In	VOUT3 feedback input
66	VOUT3	Out	VOUT3 signal output
67	VOUT2-FB	In	VOUT2 feedback input
68	VOUT2	Out	VOUT2 signal output
69	VOUT1	Out	VOUT1 signal output
70	SCL	In	I^2C bus clock input

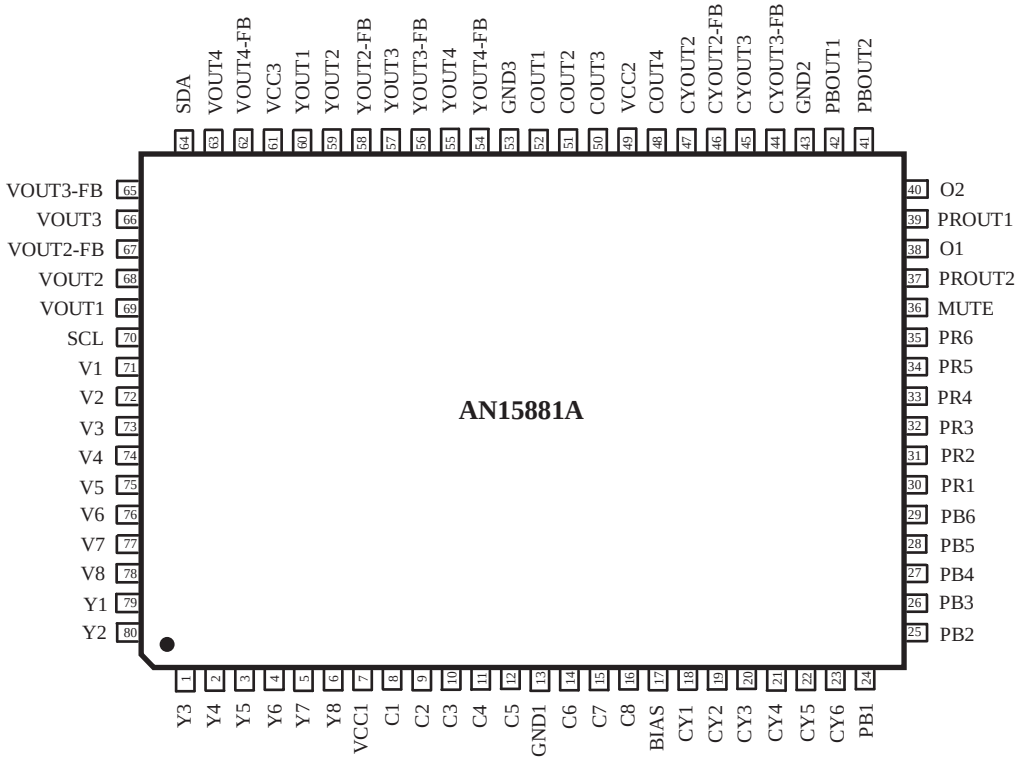
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -22

Q4002: AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs)

TERMINAL DESCRIPTION (3/3)

Pin No.	Pin name	Type	Description
71	V1	In	Video composite signal input 1
72	V2	In	Video composite signal input 2
73	V3	In	Video composite signal input 3
74	V4	In	Video composite signal input 4
75	V5	In	Video composite signal input 5
76	V6	In	Video composite signal input 6
77	V7	In	Video composite signal input 7
78	V8	In	Video composite signal input 8
79	Y1	In	Luminance signal input 1
80	Y2	In	Luminance signal input 2

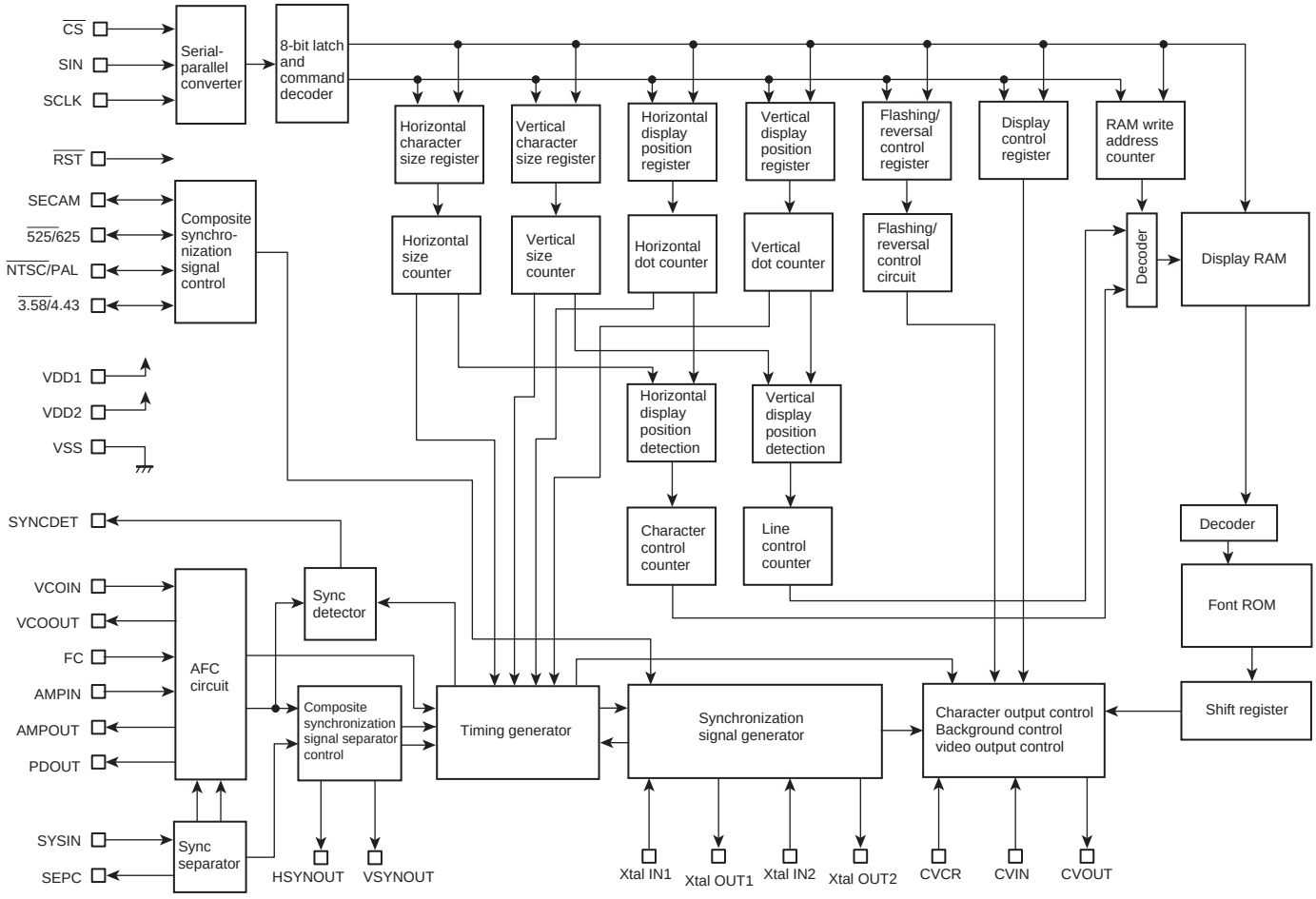
PIN CONFIGURATION



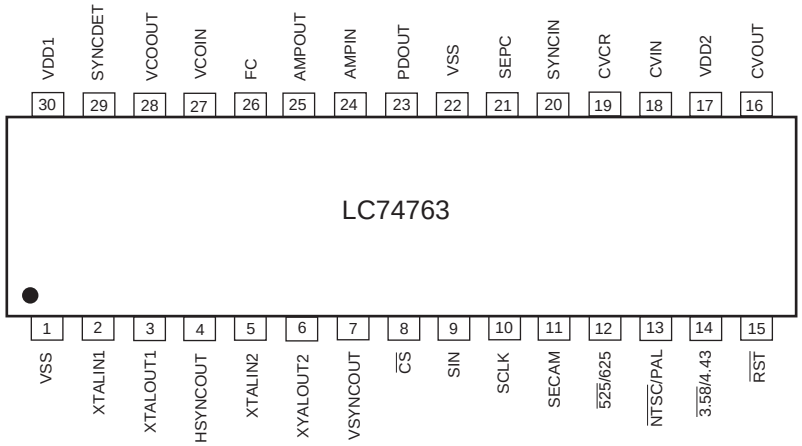
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -23

Q4004: LC74763-9836 (On-Screen Display IC)

BLOCK DIAGRAM



PIN CONFIGRATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -24

Q4004: LC74763-9836 (On-Screen Display IC)

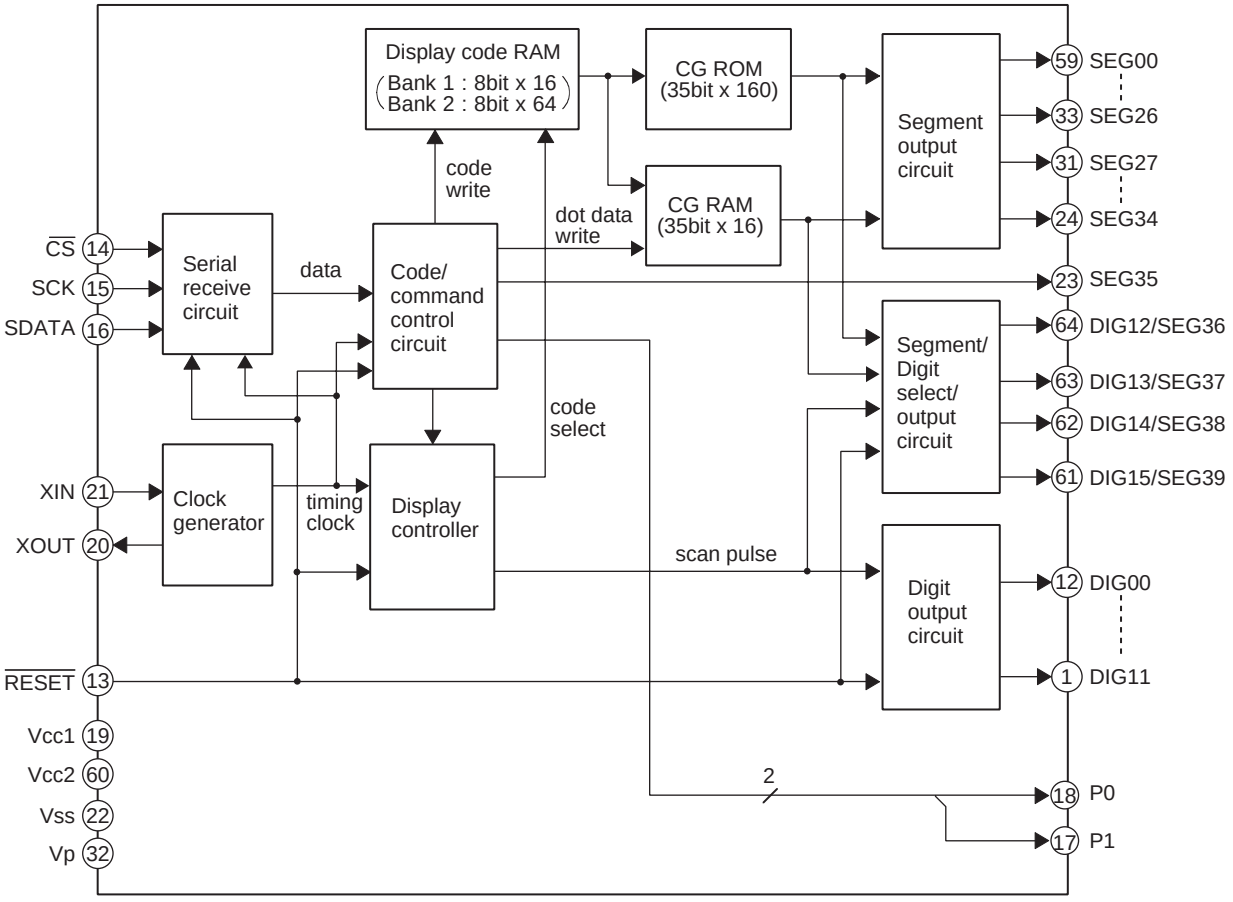
TERMINAL DESCRIPTION

Pin No.	Symbol	Function	Description
1	V_{SS}	Ground	Ground connection
2	Xtal $_{IN1}$	Crystal oscillator connection	Connection for the crystal and capacitor used to form the crystal oscillator that generates the internal synchronization signal. The oscillator can be selected with a command switch.
3	Xtal $_{OUT1}$		
4	HSYNC $_{OUT}$	Horizontal synchronization output	Outputs the horizontal synchronization signal (AFC). The output polarity can be selected (metal option). Also functions as general output port (command switch).
5	Xtal $_{IN2}$	Crystal oscillator connection	Connection for the crystal and capacitor used to form the crystal oscillator that generates the internal synchronization signal.
6	Xtal $_{OUT2}$		
7	VSYNC $_{OUT}$	Vertical synchronization output	Outputs the vertical synchronization signal. The output polarity can be selected (metal option). Also functions as general output port (command switch).
8	$\overline{CS}$	Enable input	Enables/disables serial data input. Serial data is enabled when this pin is low (hysteresis input). Pull-up resistor built in (metal option).
9	SIN	Data input	Serial data input (hysteresis input). Pull-up resistor built in (metal option).
10	SCLK	Clock input	Clock input for serial data input (hysteresis input). Pull-up resistor built in (metal option).
11	SECAM	SECAM mode switch input/ output (command switch)	During input, switches between SECAM and other modes. During output, functions as general output port or internal V output (command switch). Low = other modes, high = SECAM mode
12	$\overline{525}$/625	525/625 switch input/output (command switch)	During input, switches between 525 scan lines and 625 scan lines. During output, functions as general output port or character data output (command switch). Low = 525 lines, high = 625 lines
13	$\overline{NTSC}$/PAL	NTSC/PAL switch input/output (command switch)	Switches the color mode between NTSC and PAL. During output, functions as general output port or frame data output (command switch). Low = NTSC, high = PAL
14	$\overline{3.58}$/4.43	3.58/4.43 switch input/output (command switch)	Switch FSC between 3.58 MHz and 4.43 MHz. During output, functions as general output port or halftone output (command switch). Low = 3.58, high = 4.43
15	$\overline{RST}$	Reset input	System reset input pin, low is active (hysteresis input). Pull-up resistor built in (metal option).
16	CV_{OUT}	Video signal output	Composite video output
17	V_{DD2}	Power supply connection	Power supply connection for composite video signal level generation
18	CV_{IN}	Video signal input	Composite video input
19	CV_{CR}	Video signal input	SECAM chroma signal input
20	SYNC $_{IN}$	Sync separator circuit input	Built-in sync separator circuit video signal input
21	SEP $_{C}$	Sync separator circuit	Built-in sync separator circuit
22	V_{SS}	Ground	Ground connection
23	PD $_{OUT}$	Control voltage output	AFC control voltage output
24	AMP $_{IN}$	AFC filter connection	Filter connection
25	AMP $_{OUT}$		
26	FC	Control voltage input	AFC control voltage input
27	VCO_{IN}	LC oscillator connection	VCO LC oscillator circuit coil and capacitor connection
28	VCO_{OUT}		
29	$SYNC_{DET}$	External synchronization signal detection output	Outputs the exclusive NOR of the horizontal synchronization signal (AFC) and CSYNC (sync separator). The output polarity can be selected (metal option). Also functions as general output port (command switch).
30	V_{DD1}	Power supply connection	Power supply connection (+5 V: digital system power supply)

IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS -25

Q7502: M66005 (FL Tube Driver)

BLOCK DIAGRAM



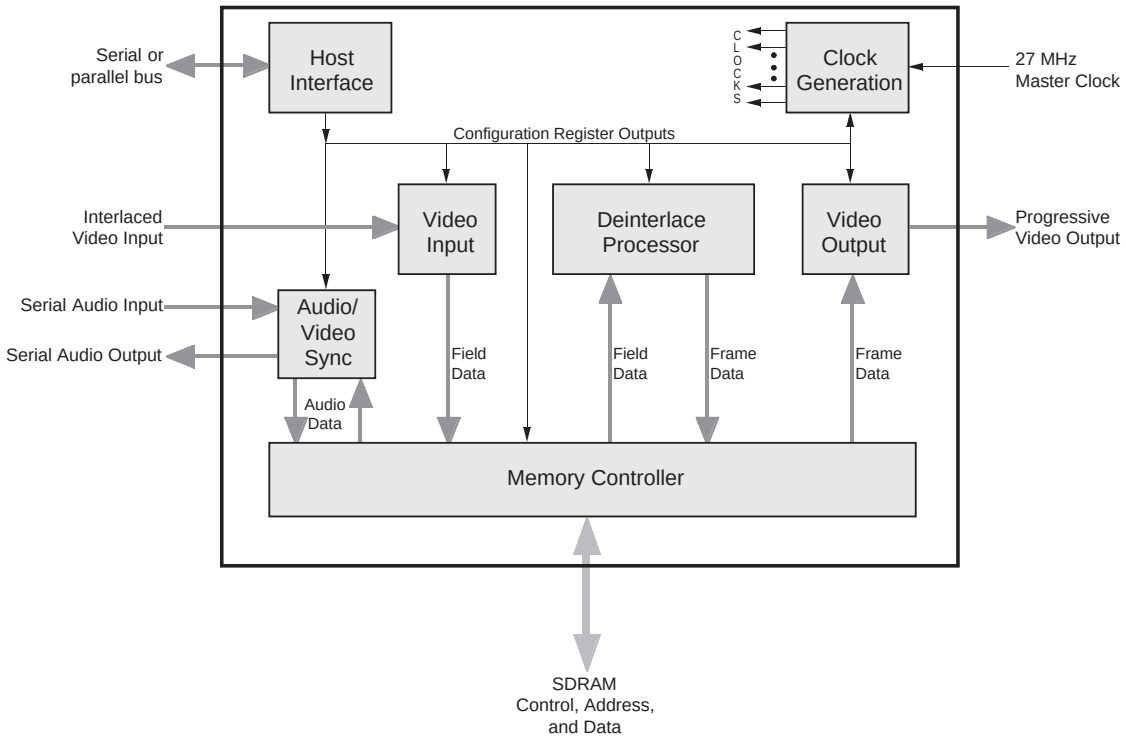
TERMINAL DESCRIPTION

PIN NO.	SYMBOL	PIN NAME	DESCRIPTION
13	$\overline{\text{RESET}}$	Reset input	This pin is used to initialize the internal state of the M66004.
14	$\overline{\text{CS}}$	Chip select input	"L" : Communication with the MCU is possible. "H" : Any instruction from the MCU is neglected.
15	SCK	Shift clock input	At the rising edge from "L" to "H", input data is shifted.
16	SDATA	Serial data input	Character code or command data to display is input from MSB.
21, 20	XIN, XOUT	Clock input Clock output	This pin is used to connect a resister and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 33~59	SEG00 ~ SEG39	Segment output	These pins are used to connect to segment pins of VFD.
17, 18	P0, P1		Output port (static operation)
19	VCC1		Positive power supply for internal logic.
60	VCC2		Positive power supply for high-pressure-resistant output port.
22	VSS		GND
32	VP		Negative power supply for VFD drive.

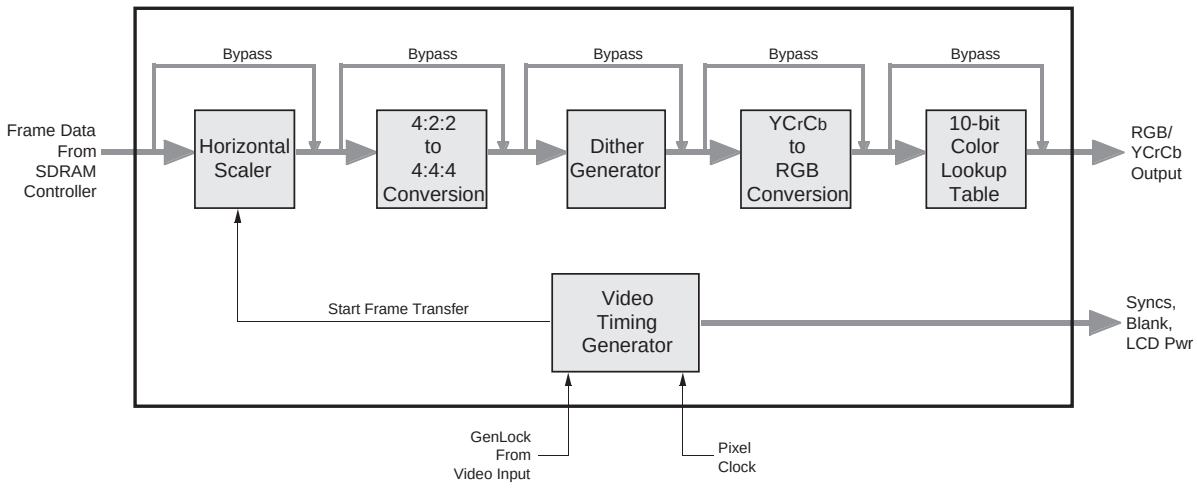
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -26

Q8001 : SII504 (I/P Video Converter)

BLOCK DIAGRAM



Video Output Section BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -27

Q8001 : SII504 (I/P Video Converter)

TERMINAL DESCRIPTION (1/4)

Signal Group	Signal Name	Notes	Type	Description
Video Input	VidInData[9:2]	5V	In	Multiplexed Video Input Data (ITU-R BT.656, 8-bit & H/V syncs formats); Y (luma) Video Input Data (16-bit & H/V syncs format).
	VidInData[19:12] (HostData[15:8])	5V/PD	In	Chroma Video Input Data (16-bit & H/V syncs format only). See Host Interface pin list for pin functions when not used for video input.
	VS (HostData[7])	5V/PD	In	Vertical Sync input (8/16-bit & H/V syncs format only). See Host Interface pin list for pin function when not used for video input.
	HS (HostData[6])	5V/PD	In	Horizontal Sync input (8/16-bit & H/V syncs format only). See Host Interface pin list for pin function when not used for video input.
	VidInClk	5V	In	Video Input Clock, 27.0 MHz
Video Output	Red_Cr[9:0]		Out	Red Data (RGB output mode); Cr Data (YCrCb output mode)
	Green_Y[9:0]		Out	Green Data (RGB output mode); Y Data (YCrCb output mode)
	Blue_Cb[9:0]		Out	Blue Data (RGB output mode); Cb Data (YCrCb output mode)
	/HSync		Out	Horizontal Sync
	/VSync		Out	Vertical Sync
	/CSync		Out	Composite Sync
	/CBlank		Out	Composite Blank
	LCDPwrEn		Out	LCD Power Enable
	VidOutClk		Out	Video Output Clock, 36, 27 or 24 MHz
	Clk48M	5V	InOut	48 MHz Clock. Normally, this pin is a no-connect, outputting an internal PLL-generated 48.0 MHz clock and receiving that same clock through its input buffer. To bypass the PLL, set /BypPLLClk48M = 0, and supply a 48.0 MHz clock to the Clk48M pin.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -28

Q8001 : SII504 (I/P Video Converter)

TERMINAL DESCRIPTION (2/4)

Signal Group	Signal Name	Notes	Type	Description
Video Output (continued)	/BypPLLClk48M	PU	In	Bypass PLL for Clk48M. Normally, this pin is a no-connect, and the internal pullup ensures that the PLL is enabled. To bypass the PLL, set /BypPLLClk48M = 0, and supply a 48.0 MHz clock to the Clk48M pin.
	Clk54_72M	5V	InOut	54 or 72 MHz Clock. Normally, this pin is a no-connect, outputting an internal PLL-generated 54.0 MHz or 72.0 MHz clock and receiving that same clock through its input buffer. To bypass the PLL, set /BypPLLClk54_72M = 0, and supply a 54.0 or 72.0 MHz clock to the Clk54_72M pin. -
	/BypPLLClk54_72M	5V/PU	In	Bypass PLL for Clk54_72M. Normally, this pin is a no-connect, and the internal pullup ensures that the PLL is enabled. To bypass the PLL, set /BypPLLClk54_72M = 0, and supply a 54.0 MHz or 72.0 MHz clock to the Clk54_72M pin.
Audio/Video Synchronization	SDIn	5V/PD	In	Serial Digital Audio Input Data. See Audio/ Video Synchronization section of Functional Description for audio formats supported.
	WSIn	5V/PD	In	Serial Digital Audio Input Word Select. See Audio/Video Synchronization section for audio formats supported.
	SCKIn	5V/PD	In	Serial Digital Audio Input Clock. Frequency range of clock is 1.411 to 6.144 MHz. See Audio/Video Synchronization section for audio formats supported.
	SDOut		Out	Serial Digital Audio Output Data. Audio output follows audio input, with a delay equal to that of the video processing pipeline.
	WSOut		Out	Serial Digital Audio Output Word Select. Audio output follows audio input, with a delay equal to that of the video processing pipeline.
	SCKOut	5V/PD	In	Serial Digital Audio Output Clock. Same frequency as SCKIn. SDOut and WSOut are generated from SCKOut. See Audio/Video Synchronization section for more details on on audio clocking.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -29

Q8001 : SII504 (I/P Video Converter)

TERMINAL DESCRIPTION (3/4)

Signal Group	Signal Name	Notes	Type	Description
Memory	/RAS		Out	SDRAM Row Address Strobe.
	/CAS		Out	SDRAM Column Address Strobe.
	/WE		Out	SDRAM Write Enable.
	DQM		Out	SDRAM Data Mask.
	MemData[31:0]	5V	InOut	SDRAM Data.
	MemAddr[12:0]	5V/PU/PD	InOut	SDRAM Address when an output. Configuration at reset when and input. See Memory Subsystem an Hardware Configuration sections of Functional Description for details. (Note: MemAddr12 is an output-only pin, does not have an internal pullup or pulldown, and is not part of the startup configuration.)
	MemClk	5V	InOut	SDRAM Clock. Normally, this pin is an InOut, outputting an internal PLL-generated 66.0 MHz or 72.0 MHz clock to the SDRAM and receiving that same clock through its input buffer. To bypass the PLL, set /BypPLLMemClk = 0, and supply a 66.0 MHz or 72.0 MHz clock to MemClk.
	/BypPLLMemClk	5V/PU	In	Bypass PLL for MemClk. Normally, this pin is a no-connect, and the internal pullup ensures that the PLL is enabled. To bypass the PLL, set /BypPLLMemClk = 0, and suppy a 66.0 MHz or 72.0 MHz clock to the MemClk pin
Host Interface	/HostWr_SCL	5V/H	In	186-Compatible Write when HostMode = 0. Serial Clock when HostMode = 1.
	/HostRd_SDA	5V/H	InOut	186-Compatible Read when HostMode = 0. Serial Data (InOut, open drain output) when HostMode = 1.
	/HostCS	5V/PU	In	186-Compatible Chip Select when HostMode=0. When HostMode=1, must be tied to VDD or pulled up to VDD.
	HostAddr[7:0]	5V/PD	In	186-Compatible Address when HostMode = 0. No connect when HostMode = 1.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -30

Q8001 : SII504 (I/P Video Converter)

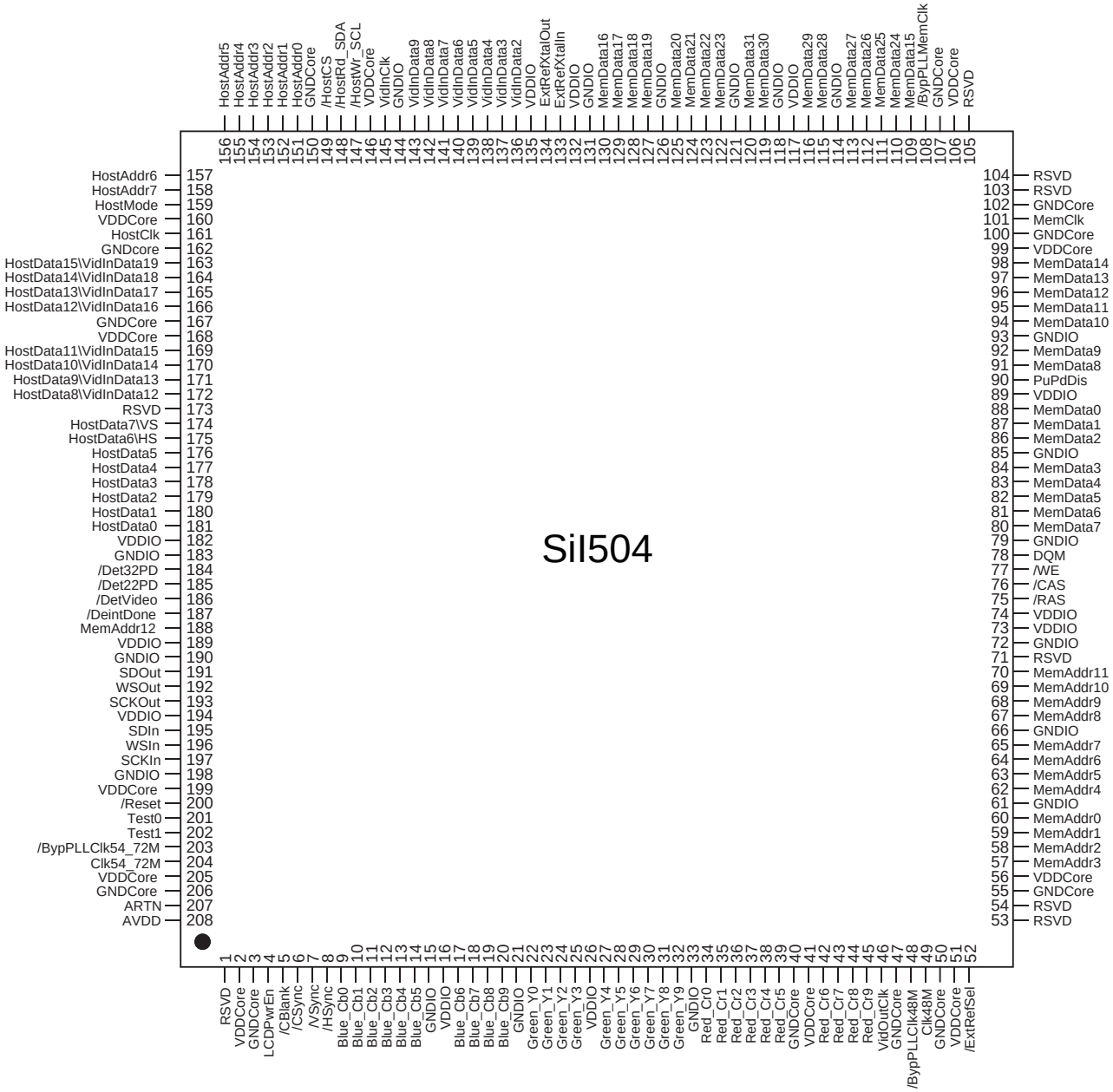
TERMINAL DESCRIPTION (4/4)

Signal Group	Signal Name	Notes	Type	Description
Host Interface (continued)	HostData[15:8] (VidInData[19:2])	5V/PD	InOut	186-Compatible Data when HostMode = 0. Chroma video input data (16-bit & H/V syncs format) when HostMode = 1.
	HostData[7] (VS)	5V/PD	InOut	186-Compatible Data when HostMode = 0. Vertical sync input (8/16-bit & H/V syncs format) when HostMode = 1.
	HostData[6] (HS)	5V/PD	InOut	186-Compatible Data when HostMode = 0. Horizontal sync input (8/16-bit & H/V syncs format) when HostMode = 1.
	HostData[5:0]	5V/PD	InOut	186-Compatible Data when HostMode = 0. No connnect when HostMode = 1.
	HostClk	5V	InOut	186-Compatible Clock (33.33 MHz max) when HostMode = 0. No Connect (27.0 MHz, InOut) when HostMode = 1. Note that when HostMode= 1, the clock output on HostClk is also received and used internally.
	HostMode	5V/PU	In	Serial Host Interface when HostMode = 1 (internal pullup defaults to this mode). 186-compatible host interface when HostMode = 0.
Video Processing Status	/Det32PD		Out	3:2 Pulldown Sequence Detected.
	/Det22PD		Out	2:2 Pulldown Sequence Detected.
	/DetVideo		Out	Interlaced Video Sequence Detected.
	/DeintDone		Out	Deinterlace processing complete for current field period. Opendrain output.
External APLL Reference Clock	/ExtRefSel	5V/PU	In	External APLL Reference Select. Internal pullup defaults pin to a 1, selecting VidInClk as the APLL reference clock. To select ExtRefXtalIn as the APLL reference clock, set /ExtRefSel to a 0.
	ExtRefXtalIn		In	External APLL Reference Crystal/oscillator Input.
	ExtRefXtalOut		Out	External APLL Reference Crystal Output.
Reset	/Reset	5V/H	In	Hardware Reset.
Test	Test[1:0]	5V/PD	In	Production hardware test support.
	PuPdDis	5V	In	Internal pullup and pulldown disable test function. Connect to ground for normal operation.
Power	AVDD		Pwr	1.8V Analog Power for PLL. (Qty: 1)
	ARTN		Pwr	Analog Return for PLLs. (Qty: 1)
	VDDCore		Pwr	1.8V Core Power. (Qty: 11)
	GNDCore		Pwr	Digital Ground for Core Power. (Qty: 12)
	VDDIO		Pwr	3.3V I/O Power. (Qty: 11)
	GNDIO		Pwr	Digital Ground for I/O Power. (Qty: 18)

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -31

Q8001 : SII504 (I/P Video Converter)

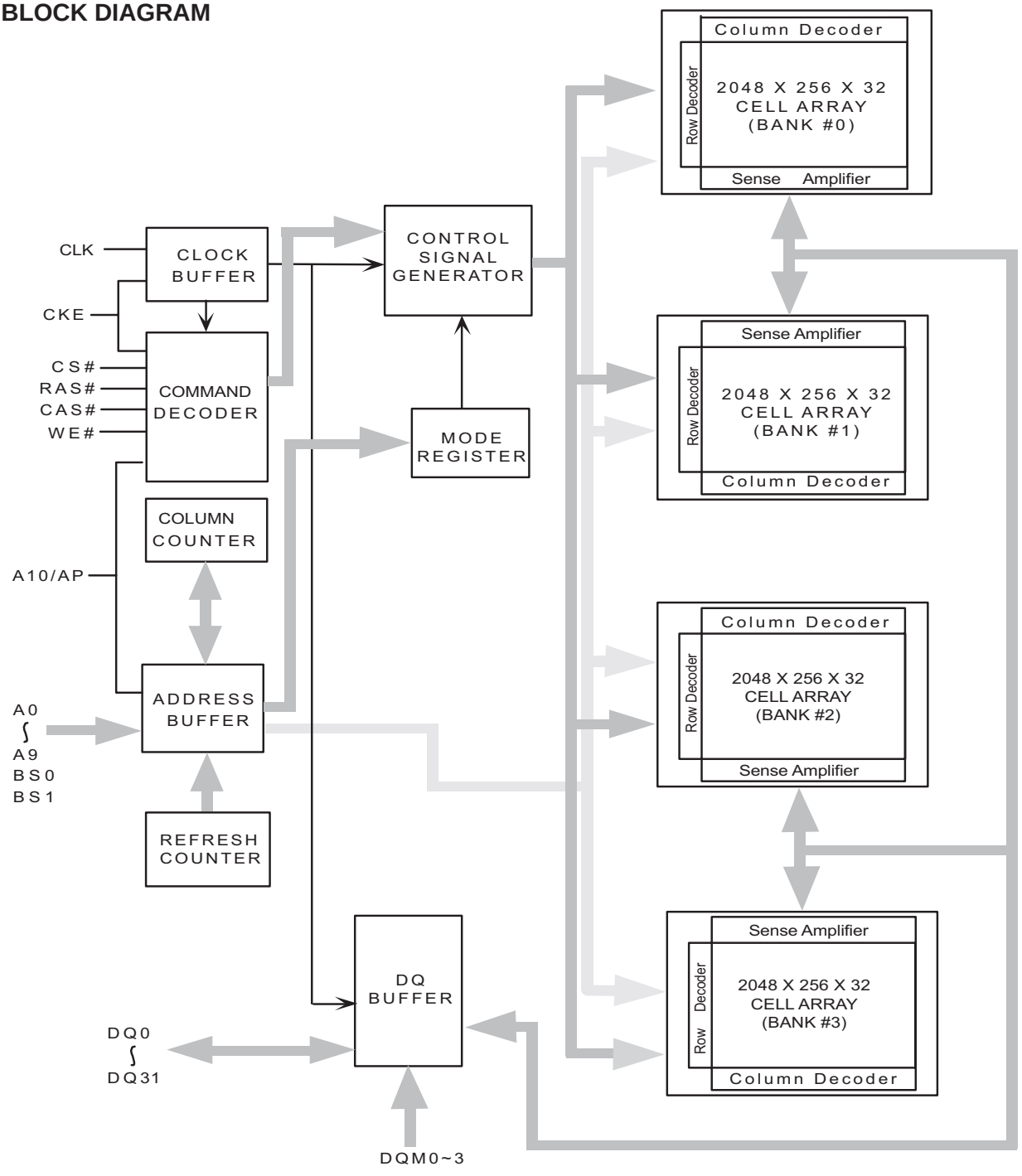
PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -32

Q8003: IC42S32200L (64-Mbit Synchronous Dynamic RAM)

BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -33

Q8003: IC42S32200L (64-Mbit Synchronous Dynamic RAM)

TERMINAL DESCRIPTION (1/2)

Symbol	Type	Description
CLK	**Input**	**Clock:** CLK is driven by the system clock.All SDRAM input signals are sampled on the positive edge of CLK.CLK also increments the internal burst counter and controls the output registers.
CKE	**Input**	**Clock Enable:** CKE activates(HIGH)and deactivates(LOW)the CLK signal.If CKE goes low synchronously with clock(set-up and hold time same as other inputs),the internal clock is suspended from the next clock cycle and the state of output and burst address is frozen as long as the CKE remains low.When all banks are in the idle state,deactivating the clock controls the entry to the Power Down and Self Refresh modes.CKE is synchronous except after the device enters Power Down and Self Refresh modes,where CKE becomes asynchronous until exiting the same mode. The input buffers,including CLK,are disabled during Power Down and Self Refresh modes,providing low standby power.
BS0,BS1	**Input**	**Bank Select:** BS0 and BS1 defines to which bank the BankActivate,Read,Write,or BankPrecharge command is being applied.
A0-A10	**Input**	**Address Inputs:** A0-A10 are sampled during the BankActivate command (row address A0-A10)and Read/Write command (column address A0-A7 with A10 defining Auto Precharge) to select one location out of the 256K available in the respective bank.During a Precharge command,A10 is sampled to determine if all banks are to be precharged (A10 =HIGH). The address inputs also provide the op-code during a Mode Register Set .
CS#	**Input**	**Chip Select:** CS#enables (sampled LOW)and disables (sampled HIGH)the command decoder.All commands are masked when CS#is sampled HIGH.CS#provides for external bank selection on systems with multiple banks.It is considered part of the command code.
RAS#	**Input**	**Row Address Strobe:** The RAS#signal defines the operation commands in conjunction with the CAS#and WE#signals and is latched at the positive edges of CLK.When RAS# and CS#are asserted “LOW”and CAS#is asserted “HIGH,”either the BankActivate command or the Precharge command is selected by the WE#signal.When the WE#is asserted “HIGH,”the BankActivate command is selected and the bank designated by BS is turned on to the active state.When the WE#is asserted “LOW,”the Precharge command is selected and the bank designated by BS is switched to the idle state after the precharge operation.
CAS#	**Input**	**Column Address Strobe:** The CAS#signal defines the operation commands in conjunction with the RAS#and WE#signals and is latched at the positive edges of CLK. When RAS#is held “HIGH”and CS#is asserted “LOW,”the column access is started by asserting CAS#”LOW.”Then,the Read or Write command is selected by asserting WE# “LOW”or “HIGH.”
WE#	**Input**	**Write Enable:** The WE#signal defines the operation commands in conjunction with the RAS#and CAS#signals and is latched at the positive edges of CLK.The WE#input is used to select the BankActivate or Precharge command and Read or Write command.
DQM0-3	**Input**	**Data Input/Output Mask:** DQM0-DQM3 are byte specific,nonpersistent I/O buffer controls. The I/O buffers are placed in a high-z state when DQM is sampled HIGH.Input data is masked when DQM is sampled HIGH during a write cycle.Output data is masked (two-clock latency)when DQM is sampled HIGH during a read cycle.DQM3 masks DQ31-DQ24,DQM2 masks DQ23-DQ16,DQM1 masks DQ15-DQ8,and DQM0 masks DQ7-DQ0.
DQ0-31	**Input/Output**	**Data I/O:** The DQ0-31 input and output data are synchronized with the positive edges of CLK.The I/Os are byte-maskable during Reads and Writes.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -34

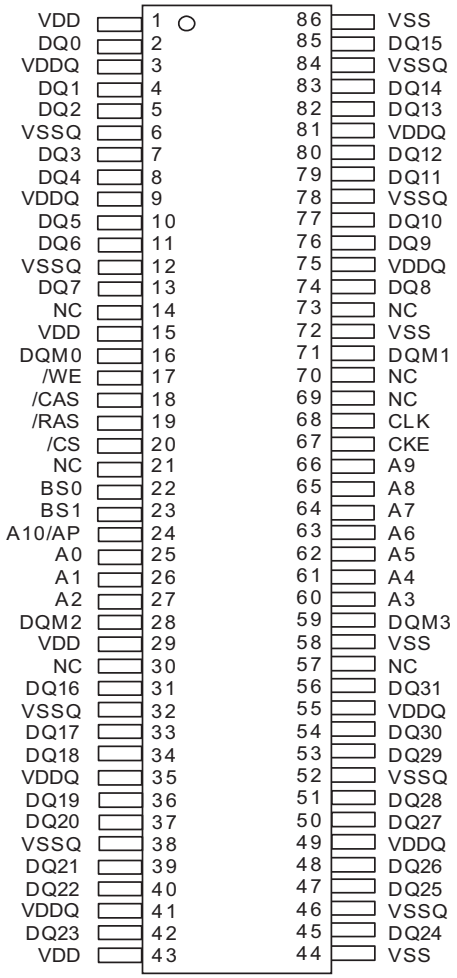
Q8003: IC42S32200L (64-Mbit Synchronous Dynamic RAM)

TERMINAL DESCRIPTION (2/2)

Symbol	Type	Description
NC	-	**No Connect:** These pins should be left unconnected.
VDDQ	Supply	**DQ Power:** Provide isolated power to DQs for improved noise immunity.
VSSQ	Supply	**DQ Ground:** Provide isolated ground to DQs for improved noise immunity.
VDD	Supply	**Power Supply:** +3.3V ± 0.3V
VSS	Supply	**Ground**

PIN CONFIGURATION

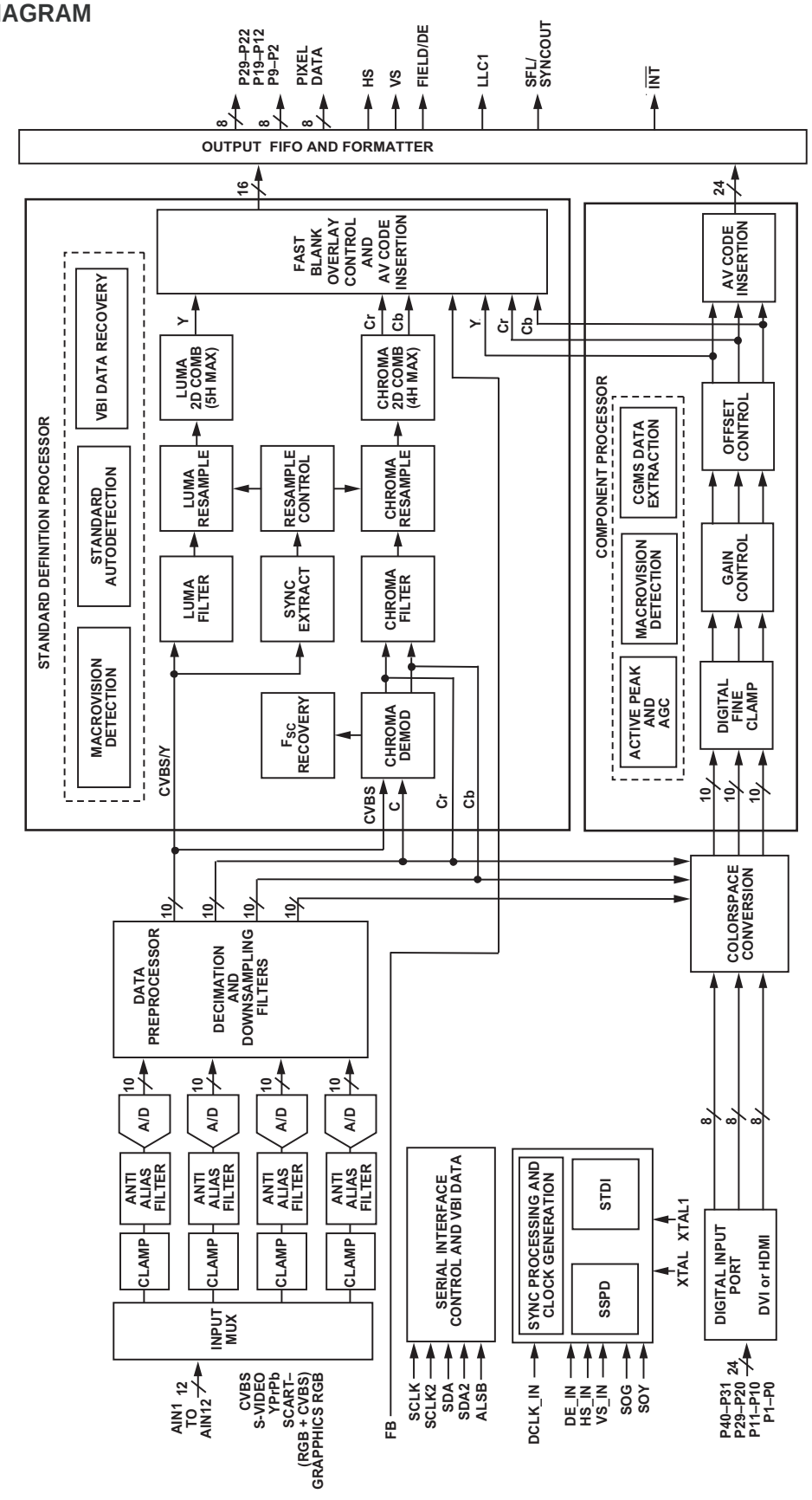
(Top View)



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -35

Q8101: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

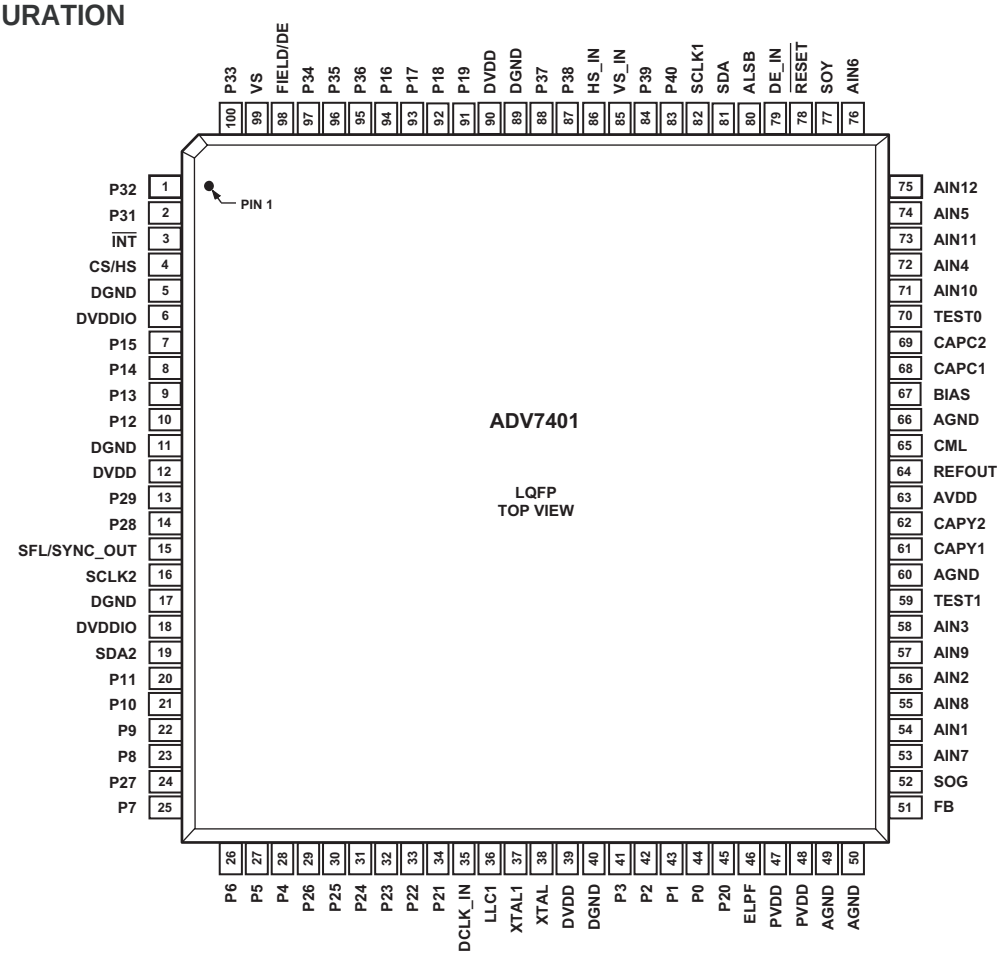
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -36

Q8101: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

PIN CONFIGURATION



TERMINAL DESCRIPTION(1/3)

Pin No.	Mnemonic	Type	Function
5, 11, 17, 40, 89	DGND G		Digital ground
49, 50, 60, 66	AGND G		Analog ground
6, 18	DVDDIO	P	Digital I/O supply voltage (3.3 V).
12, 39, 90	DVDD	P	Digital core supply voltage (1.8 V).
63	AVDD	P	Analog supply voltage (3.3 V).
47, 48	PVDD	P	PLL supply voltage (1.8 V).
51	FB	I	FB is a fast switch overlay input that switches between CVBS and RGB analog signals.
54, 56, 58, 72, 74, 76, 53, 55, 57, 71, 73, 75	AIN1–AIN12	I	Analog video input channels.
42, 41, 28, 27, 26, 25, 23, 22, 10, 9, 8, 7, 94, 93, 92, 91	P2–P9, P12–P19	O	Video pixel output port.

IC BLOCK DI AGRAMS AND TERMINAL DESCRIPTIONS -37

Q8101: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

TERMINAL DESCRIPTION (2/3)

Pin No.	Mnemonic	Type	Function
33, 32, 31, 30, 29, 24, 14, 13	P22-P29 I/O		Video input/output port
44, 43, 21, 20, 45, 34, 2, 1, 100, 97, 96, 95, 88, 87, 84, 83	P0–P1, P10–P11, P20–P21, P31–P40	I	Video pixel input port.
3	$\overline{\text{INT}}$	O	Interrupt pin, can be active low or active high. When SDP/CP status bits change this pin will trigger. The set of events which will trigger an interrupt are under user control.
4	HS/CS	O	HS is a horizontal synchronization output signal in SDP and CP modes. CS is a digital composite synchronization signal that can be selected while in CP mode.
99	VS	O	VS is a vertical synchronization output signal in SDP and CP modes.
98	FIELD/DE	O	FIELD is a field synchronization output signal in all interlaced video modes. This pin also can be enabled as a DE (Data Enable) signal in CP mode to allow direct connection to a HDMI/DVI Tx IC.
81, 19	SDA1, SDA2	I/O	I^2C port serial data input/output pin, SDA1 is the data line for the Control port and SDA2 is the data line for the VBI readback port.
82, 16	SCLK1, SCLK2	I I	^2C port serial clock input (max clock rate of 400 kHz). SCLK1 is the clock line for the Control port and SCLK2 is the clock line for the VBI data readback port.
80	ALSB	I	This pin selects the I^2C address for the ADV7401 Control and VBI readback ports. ALSB set to a logic 0 sets the address for a write to control port of 0x40 and the readback address for the VBI port of 0x21. ALSB set to a logic high sets the address for a write to control port of 0x42 and the readback address for the VBI port of 0x23.
78	$\overline{\text{RESET}}$	I	System reset input, active low. A minimum low reset pulse width of 5 ms is required to reset the ADV7401 circuitry.
36	LLC1	O	LLC1 is a line locked output clock for the pixel data (range is 12.825MHz to 140MHz for ADV7401KSTZ-140; 12.825MHz to 110MHz for ADV7401BSTZ-110; 12.825MHz to 80MHz for ADV7401BSTZ-80).
38	XTAL	I	Input pin for 28.63636 MHz crystal, or can be overdriven by an external 3.3 V 28.63636 MHz clock oscillator source to clock the ADV7401.
37	XTAL1	O	This pin should be connected to the 28.63636 MHz crystal or left as a no connect if an external 3.3 V 28.63636 MHz clock oscillator source is used to clock the ADV7401. In crystal mode the crystal must be a fundamental crystal.
46	ELPF	O	The recommend external loop filter must be connected to this ELPF pin.
70	TEST0		These pins should be left unconnected or alternatively tie to AGND
59	TEST1	O	These pins should be left unconnected

IC BLOCK DI AGRAMS AND TERMINAL DESCRIPTIONS -38

Q8101: ADV7401 (Multi-Format SDTV/HDTV Video Decoder)

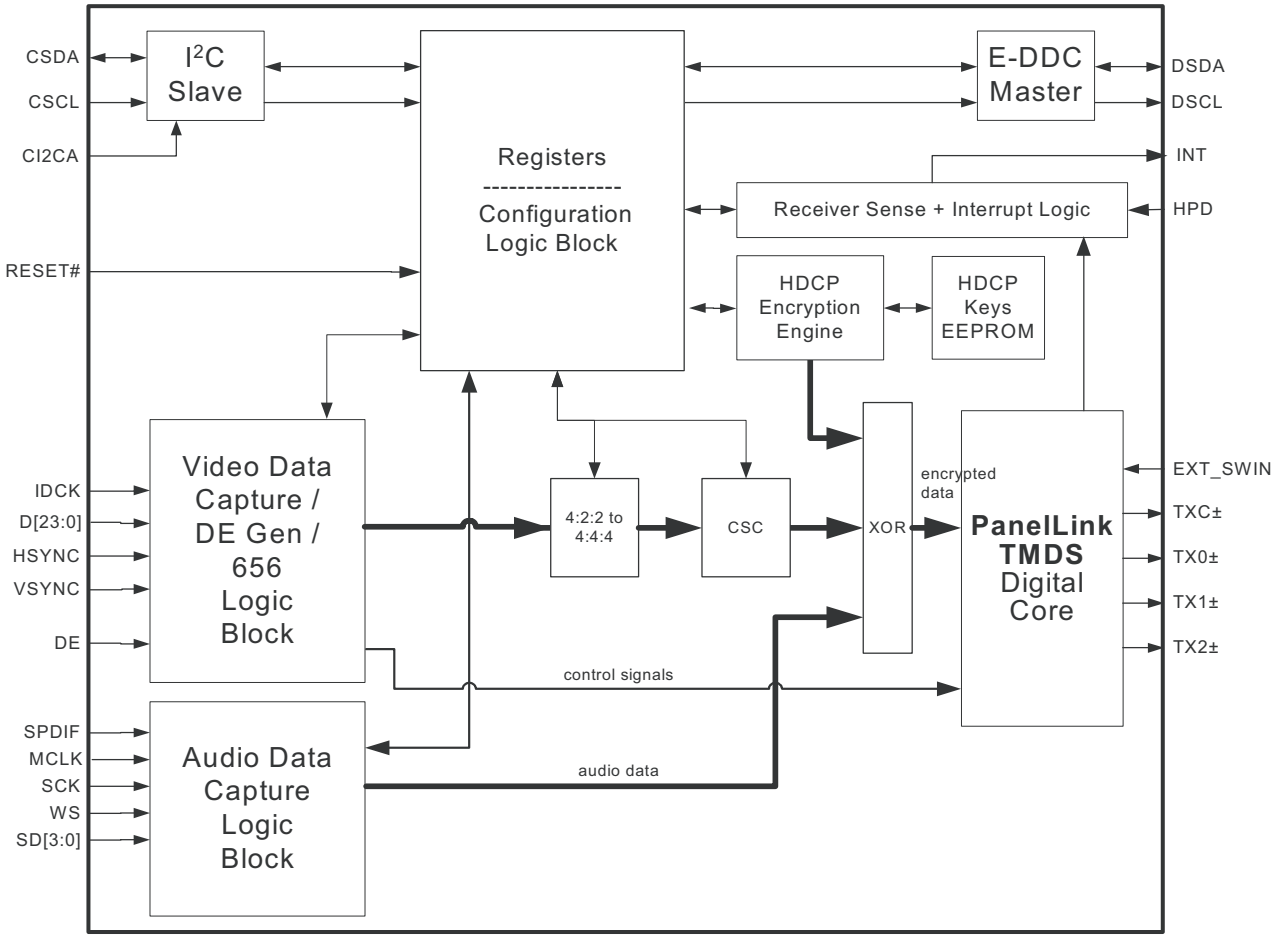
TERMINAL DESCRIPTION (3/3)

Pin No.	Mnemonic	Type	Function
15	SFL/SYNC_ O UT	O	SFL (Subcarrier Frequency Lock); this pin contains a serial output stream which can be used to lock the subcarrier frequency when this decoder is connected to any Analog Devices digital video encoder. SYNC_OUT is the sliced sync output signal only available in CP mode.
64	REFOUT	O	Internal voltage reference output.
65	CML	O	The CML pin is a common-mode level for the internal ADCs.
61, 62	CAPY1– CAPY2	I	ADC capacitor network.
68, 69	CAPC1– CAPC2	I	ADC capacitor network.
67	BIAS	O	BIAS is an external bias setting pin. Connect the recommended resistor (1.35k) between pin and ground.
86	HS_IN/CS_IN	I	Can be configured in CP mode to be either a digital HS input signal or a digital CS input signal used to extract timing in a 5-wire or 4-wire RGB mode.
85	VS_IN	I	VS input signal used in CP mode for 5-wire timing mode.
79	DE_IN	I	DE_IN is a data enable input signal used in 24-bit digital input port mode, for example, 24-bit RGB data from a DVI Rx IC.
35	DCLK_IN	I	DCLK_IN is a clock input signal used in 24-bit digital input mode (e.g. 24-bit RGB data from a DVI Rx IC) and also in digital CVBS input mode.
52	SOG	I	SOG is a sync on green input used in embedded sync mode.
77	SOY	I	SOY is a sync on luma input used in embedded sync mode.

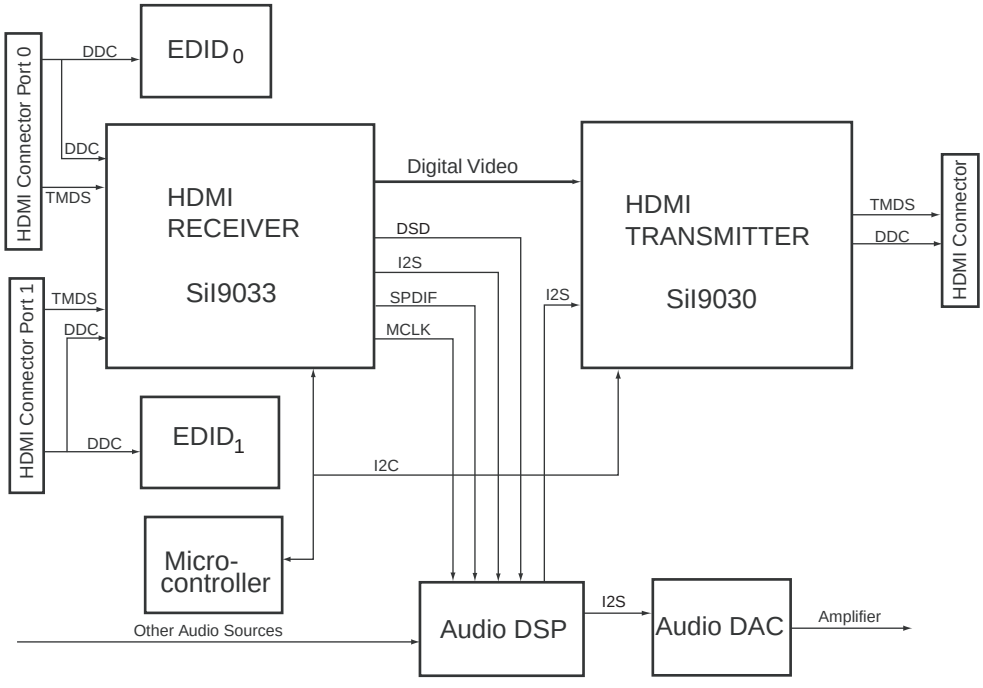
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -39

Q8401 : SiI9030CTU (HDMI Transmitter)

BLOCK DIAGRAM



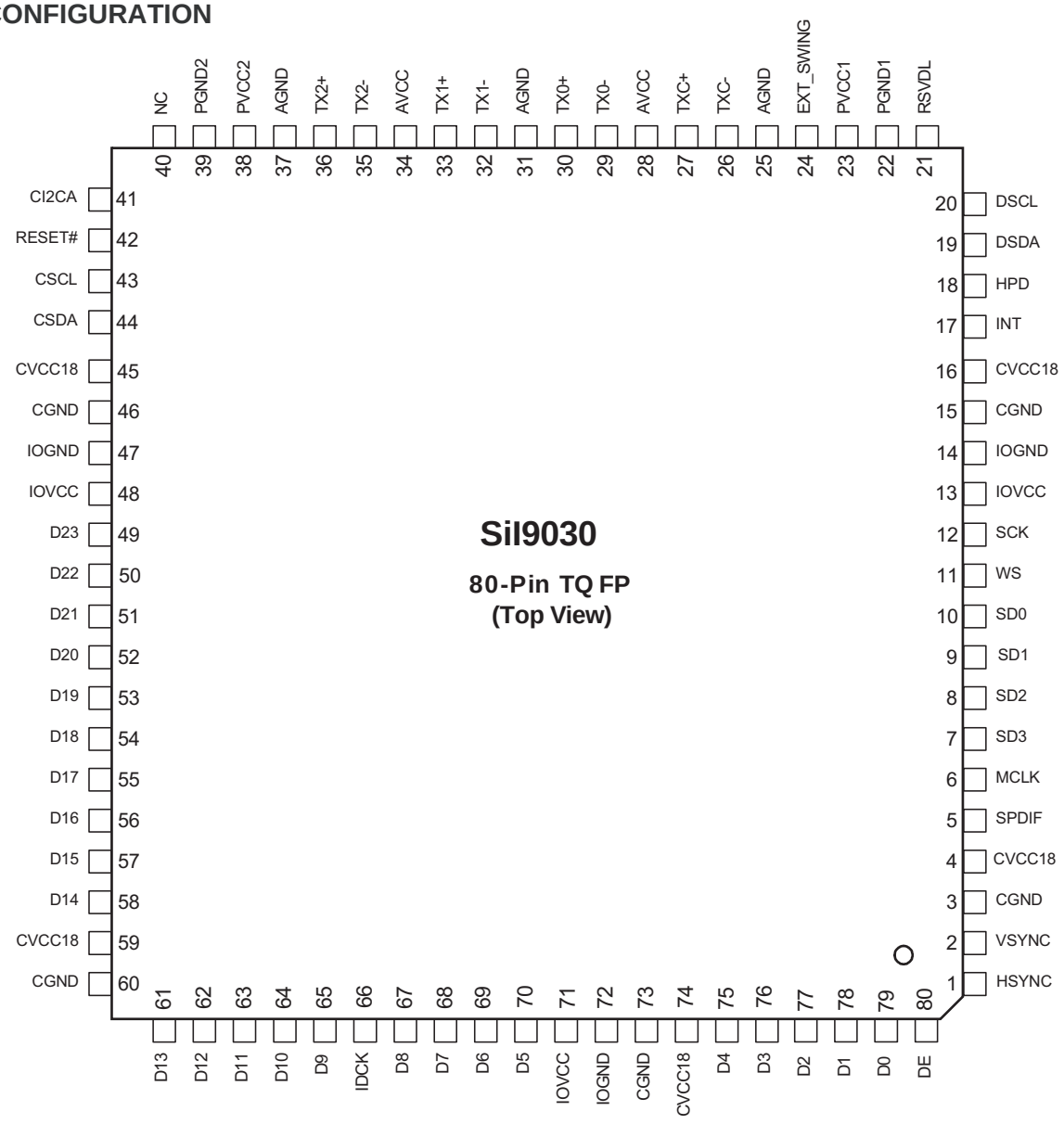
SYSTEM APPLICATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -40

Q8401 : SiI9030CTU (HDMI Transmitter)

PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -41

Q8401 : SiI9030CTU (HDMI Transmitter)

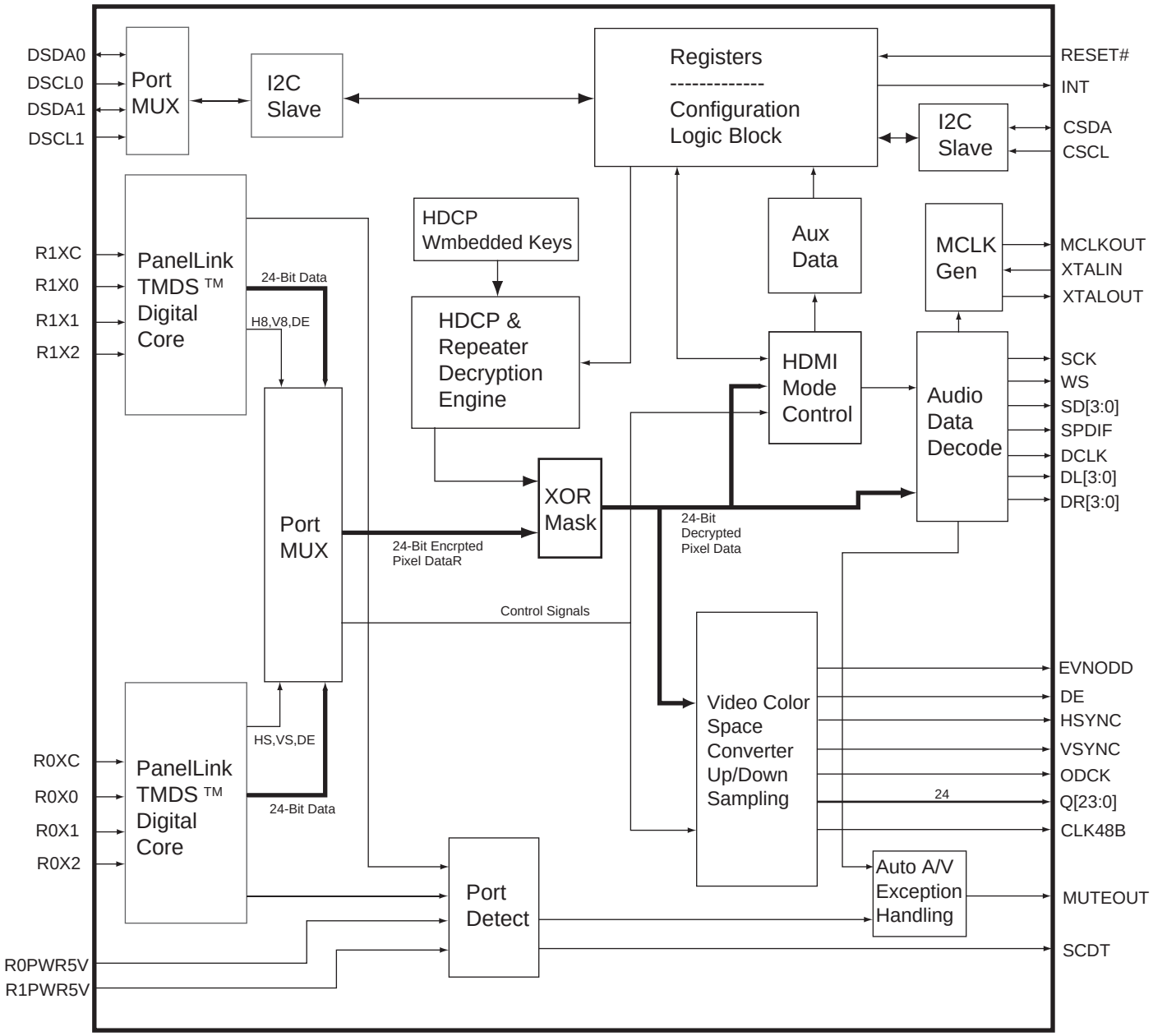
TERMINAL DESCRIPTION

Pin #	Pin Name	I/O	Description	Use
1	HSYNC	I	Horizontal Sync input control signal	Video and Audio
2	VSYNC	I	Vertical Sync input control signal	Video and Audio
3	CGND		Digital core GND.	Ground
4	CVCC18		Digital core VCC. Connect to 1.8V supply.	Power
5	SPDIF	I	S/PDIF Audio input	Video and Audio
6	MCLK	I	Audio Input Master Clock	Video and Audio
7	SD3	I	I2S Serial Data	Video and Audio
8	SD2	I	I2S Serial Data	Video and Audio
9	SD1	I	I2S Serial Data	Video and Audio
10	SD0	I	I2S Serial Data	Video and Audio
11	WS	I	I2S Word Select	Video and Audio
12	SCK	I	I2S Serial Clock	Video and Audio
13	IOVCC		IO Pin VCC. Connect to 3.3V supply.	Power
14	IOGND		IO Pin GND.	Ground
15	CGND		Digital core GND.	Ground
16	CVCC18		Digital core VCC. Connect to 1.8V supply.	Power
17	INT	O	Interrupt Output.	Confirration/Programming
18	HPD	I	Hot Plug Detect Input.	Confirration/Programming
19	DSDA	I/O	DDC data	Control
20	DSCL	I/O	DDC Clock	Control
21	RSVDL	I	Reserved for use by Silicon image, and must be tied LOW.	Confirration/Programming
22	PGND1		TMDS Core PLL Ground.	Ground
23	PVCC1		TMDS Core PLL Power. Connect to 3.3V supply.	Power
24	EXT_SWING	I	Voltage Swing Adjustment. The resistor between AVCC and this pin determines the amplitude of the voltage swing.	Differential signal data
25	AGND		Analog GND.	Ground
26	TXC-	O	TMDS output clock.	Differential signal data
27	TXC+	O		
28	AVCC		Analog VCC. Connect to 3.3Vsupply.	Power
29	TX0-	O	TMDS output data.	Differential signal data
30	TX0+	O		
31	AGND		Analog GND.	Ground
32	TX1-	O	TMDS output data.	Differential signal data
33	TX1+	O		
34	AVCC		Analog VCC. Connect to 3.3Vsupply.	Power
35	TX2-	O	TMDS output data.	Differential signal data
36	TX2+	O		
37	AGND		Analog GND.	Ground
38	PVCC2		Filter PLL Power. Connect to 3.3V supply	Power
39	PGND2		Filter PLL Ground.	Ground
40	NC		Not connected.	
41	CI2CA	I	I2C device address select	Control
42	RESET	I	Reset Pin. Active LOW	Control
43	CSCL	I	I2C Clock	Control
44	CSDA	I/O	I2C Data	Control
45	CVCC18		Digital core VCC. Connect to 1.8V supply.	Power
46	CGND		Digital core GND.	Ground
47	IOGND		IO Pin GND.	Ground
48	IOVCC		IO Pin VCC. Connect to 3.3V supply.	Power
49	D23	I	12-bit Input Pixel Data Bus. These pins are used in 24-bit mode, single-edge mode.	Video and Audio
50	D22	I		
51	D21	I		
52	D20	I		
53	D19	I		
54	D18	I		
55	D17	I		
56	D16	I		
57	D15	I		
58	D14	I		
59	CVCC18		Digital core VCC. Connect to 1.8V supply.	Power
60	CGND		Digital core GND.	Ground
61	D13	I	12-bit Input Pixel Data Bus. These pins are used in 24-bit mode, single-edge mode.	Video and Audio
62	D12	I		
63	D11	I		
64	D10	I		
65	D9	I		
66	IDCK	I	Input Data Clock	Video and Audio
67	D8	I	12-bit Input Pixel Data Bus. These pins are used in 24-bit mode, single-edge mode.	Video and Audio
68	D7	I		
69	D6	I		
70	D5	I		
71	IOVCC		IO Pin VCC. Connect to 3.3V supply.	Power
72	IOGND		IO Pin GND.	Ground
73	CGND		Digital core GND.	Ground
74	CVCC18		Digital core VCC. Connect to 1.8V supply.	Power
75	D4	I	12-bit Input Pixel Data Bus. These pins are used in 24-bit mode, single-edge mode.	Video and Audio
76	D3	I		
77	D2	I		
78	D1	I		
79	D0	I		
80	DE	I	Data enable	Video and Audio

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -42

Q8501 : SiI9033 (HDMI Receiver)

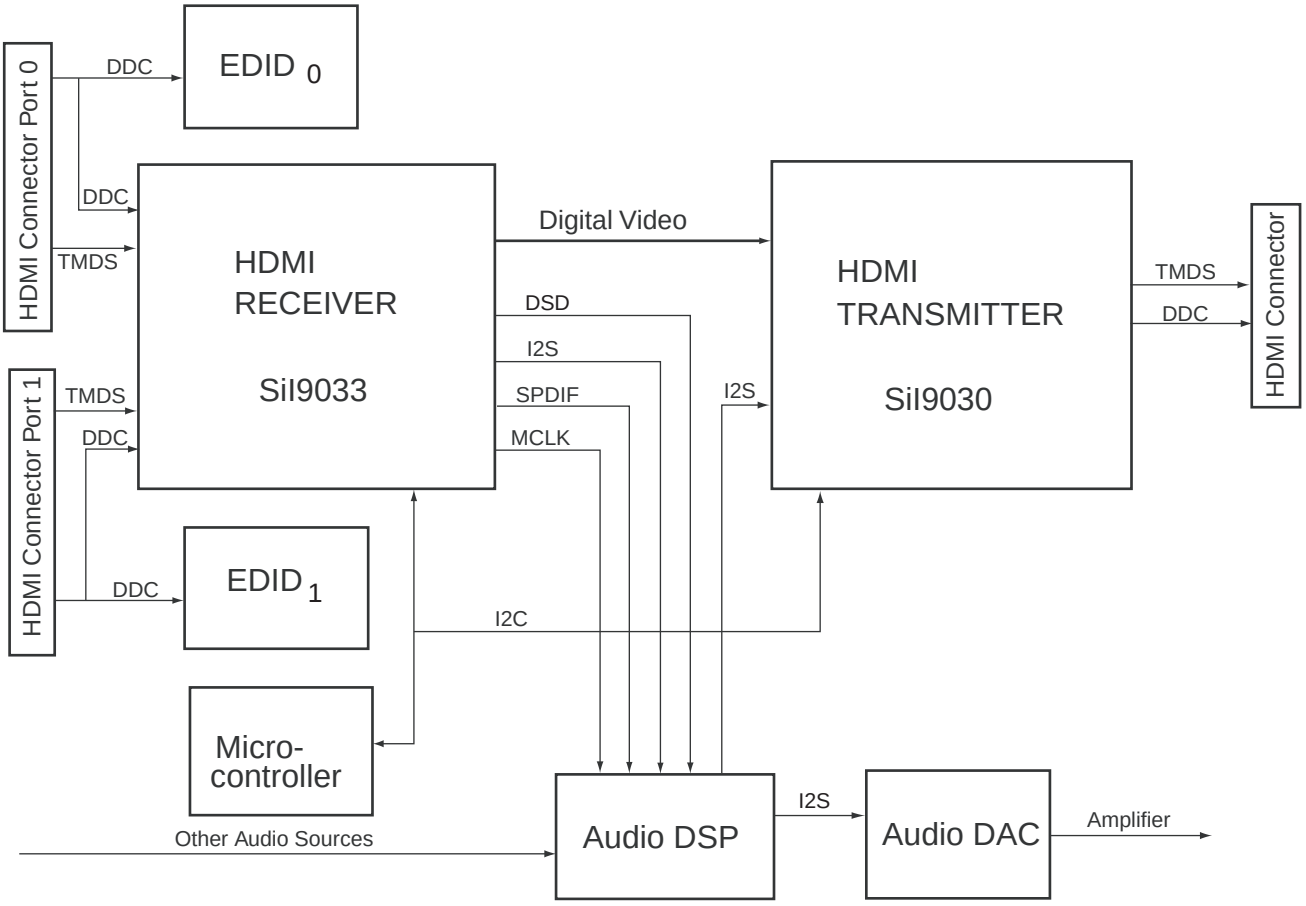
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -43

Q8501 : SiI9033 (HDMI Receiver)

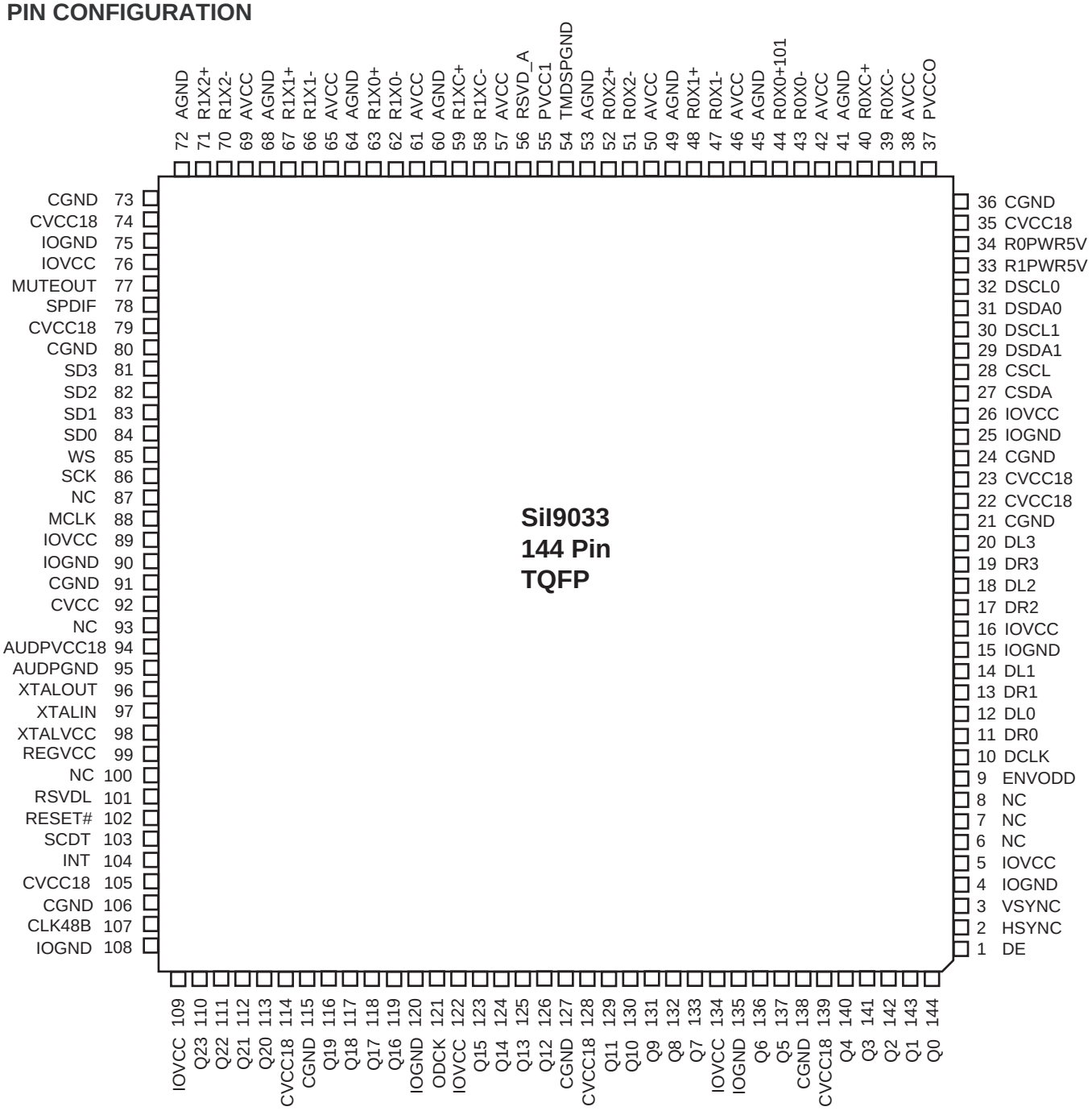
SYSTEM APPLICATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -44

Q8501 : SiI9033 (HDMI Receiver)

PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -45

Q8501 : SiI9033 (HDMI Receiver)

TERMINAL DESCRIPTION (1/5)

Digital Video Output Pins

Pin Name	Pin #	Strength	Type	Dir	Description
Q0	144	8 mA	LVTTL	Output	24-bit Output Pixel Data Bus.
Q1	143		LVTTL	Output	
Q2	142		LVTTL	Output	
Q3	141		LVTTL	Output	
Q4	140		LVTTL	Output	
Q5	137		LVTTL	Output	
Q6	136		LVTTL	Output	
Q7	133		LVTTL	Output	
Q8	132		LVTTL	Output	
Q9	131		LVTTL	Output	
Q10	130		LVTTL	Output	
Q11	129		LVTTL	Output	
Q12	126		LVTTL	Output	
Q13	125		LVTTL	Output	
Q14	124		LVTTL	Output	
Q15	123		LVTTL	Output	
Q16	119		LVTTL	Output	
Q17	118		LVTTL	Output	
Q18	117		LVTTL	Output	
Q19	116		LVTTL	Output	
Q20	113		LVTTL	Output	
Q21	112		LVTTL	Output	
Q22	111		LVTTL	Output	
Q23	110		LVTTL	Output	
DE	1		LVTTL	Output	Data enable.
HSYNC	2		LVTTL	Output	Horizontal Sync Output control signal.
VSYNC	3		LVTTL	Output	Vertical Sync Output control signal.
ODCK	121	12 mA	LVTTL	Output	Output Data Clock.

NOTE

1. HSYNC and VSYNC outputs carry sync signals for both embedded and explicit sync configurations.
2. When transporting video data which uses fewer than 24 bits, the unused bits on the Q[] bus may still carry switching pixel data signals. Unused Q[] bus pins should be unconnected, masked or ignored by downstream devices. For example, carrying YCbCr 4:2:2 data with 16-bit width (see page 50), the bits Q[0] through Q[7] will output switching signals.
3. The output data bus, Q0 to Q23, may be wire-ORed to another device such that one device is always tri-stated. However, the Q0-Q23 pins do not have bus hold internal pull-ups or pull-downs, and so cannot pull the bus when all connected devices are tri-stated.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -46

Q8501 : SiI9033 (HDMI Receiver)

TERMINAL DESCRIPTION (2/5) Digital Audio Output Pins

Pin Name	Pin #	Strength	Type	Dir	Description
XTALIN	97	—	LVTTL	In	Crystal Clock Input.
XTALOUT	96	—	LVTTL	Out	Crystal Clock Output.
MCLK	88	8 mA	LVTTL	Out	Audio Master Clock Output.
SCK	86	4 mA	LVTTL	Out	I^2S Serial Clock Output.
WS	85	4 mA	LVTTL	Out	I^2S Word Select Output.
SD0	84	4 mA	LVTTL	Out	I^2S Serial Data Output.
SD1	83	4 mA	LVTTL	Out	
SD2	82	4 mA	LVTTL	Out	
SD3	81	4 mA	LVTTL	Out	
DCLK	10	4 mA	LVTTL	Out	DSD Clock Output
DR0	11	4 mA	LVTTL	Out	DSD Serial Right Channel Data Output
DR1	13	4 mA	LVTTL	Out	
DR2	17	4 mA	LVTTL	Out	
DR3	19	4 mA	LVTTL	Out	
DL0	12	4 mA	LVTTL	Out	DSD Serial Left Channel Data Output
DL1	14	4 mA	LVTTL	Out	
DL2	18	4 mA	LVTTL	Out	
DL3	20	4 mA	LVTTL	Out	
SPDIF	78	4 mA	LVTTL	Out	S/PDIF Audio Output.
MUTEOUT	77	4 mA	LVTTL	Out	Mute Audio Output

NOTE

XTALIN may be driven at LVTTL levels by a clock (leaving XTALOUT unconnected), or connected through a crystal to XTALOUT. Refer to schematic on page 68.

TERMINAL DESCRIPTION (3/5) Configuration/Programming Pins

Pin Name	Pin #	Strength	Type	Dir	Description
INT	104	4 mA	LVTTL[1]	Out	Interrupt Output
RESET#	102	—	Schmitt	In	Reset Pin. Active LOW. 5V Tolerant.
DSCL0	32	—	Schmitt	In	DDC I^2C Clock for Port 0. 5V Tolerant.
DSDA0	31	4 mA	Schmitt	Bi-Di	DDC I^2C Data for Port 0. 5V Tolerant.
DSCL1	30	—	Schmitt	In	DDC I^2C Clock for Port 1. 5V Tolerant.
DSDA1	29	4 mA	Schmitt	Bi-Di	DDC I^2C Data for Port 1. 5V Tolerant.
CSCL	28	—	Schmitt	In	Configuration I^2C Clock. 5V Tolerant.
CSDA	27	4 mA	Schmitt	Bi-Di	Configuration I^2C Data 5V Tolerant.
SCDT	103	12 mA	LVTTL	Out	Indicates active video at HDMI input port.
CLK48B	107	12 mA	LVTTL	Bi-Di	Data Bus Latch Enable. [2]
R0PWR5V	34	—	Schmitt	In	Port 0 Transmitter Detect. 5V Tolerant.
R1PWR5V	33	—	Schmitt	In	Port 1 Transmitter Detect. 5V Tolerant.
RSVDL	101	—	LVTTL	In	Reserved, must be tied LOW.
RSVD_A	56				Reserved Pin, leave unconnected.
NC	6,7,8,87, 93,100		—	—	No internal connection.
EVNODD	9	8 mA	LVTTL	Out	Indicates Even or Odd field for interlaced formats. Polarity programmable in register.

NOTE

The INT pin is programmable as either a push-pull LVTTL output, or as an open-drain output.
CLK48B is used to clock external 24-to-48 bit latches. CLK48B is also latched on the rising edge of RESET# to set the I^2C device addresses for CSCL/CSDA. Refer to Table 11. CLK48B has a weak internal pull-down, and so will be latched as a LOW if not otherwise connected.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -47

Q8501 : SiI9033 (HDMI Receiver)

TERMINAL DESCRIPTION (4/5) Differential Signal Data Pins

Pin Name	Pin #	Type	Description	
R0XC+	40	Analog	TMDS input clock pair.	HDMI Port 0
R0XC-	39	Analog		
R0X0+	44	Analog	TMDS input data pair.	
R0X0-	43	Analog		
R0X1+	48	Analog	TMDS input data pair.	
R0X1-	47	Analog		
R0X2+	52	Analog	TMDS input data pair.	
R0X2-	51	Analog		
R1XC+	59	Analog	TMDS input clock pair.	HDMI Port 1
R1XC-	58	Analog		
R1X0+	63	Analog	TMDS input data pair.	
R1X0-	62	Analog		
R1X1+	67	Analog	TMDS input data pair.	
R1X1-	66	Analog		
R1X2+	71	Analog	TMDS input data pair.	
R1X2-	70	Analog		

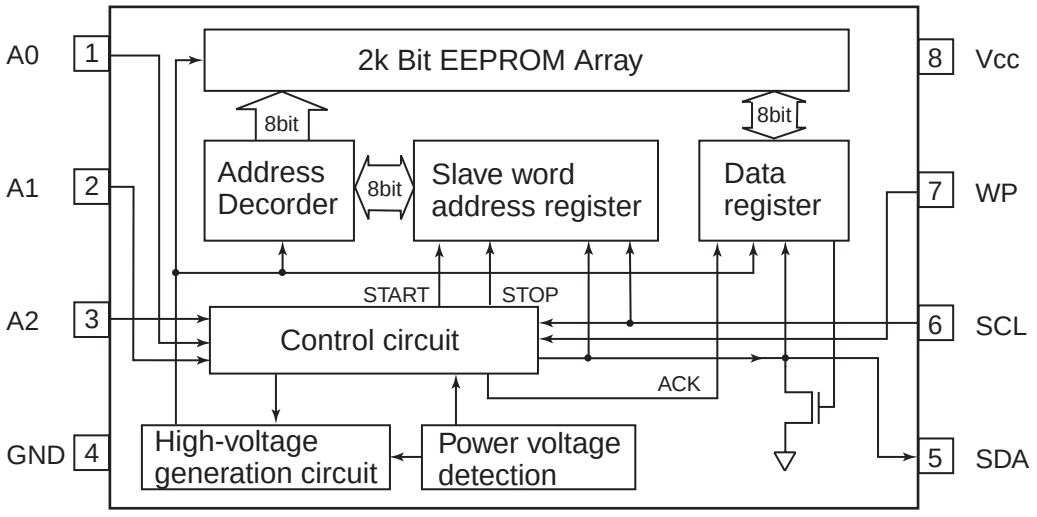
TERMINAL DESCRIPTION (5/5) Power and Ground Pins

Pin Name	Pin #	Type	Description	Supply
CVCC18	22, 23, 35, 74, 79, 92, 105, 114, 128, 139	Power	Digital Logic VCC	1.8V
CGND	21, 24, 36, 73, 80, 91, 106, 115, 127, 138	Ground	Digital Logic GND	
IOVCC	5, 16, 26, 76, 89, 109, 122, 134	Power	Input/Output Pin VCC	3.3V
IOGND	4, 15, 25, 75, 90, 108, 120, 135	Ground	Input/Output Pin GND	
AVCC	38, 42, 46, 50, 57, 61, 65, 69	Power	TMDS Analog VCC	3.3V
AGND	41, 45, 49, 53, 60, 64, 68, 72	Ground	TMDS Analog GND	
PVCC0	37	Power	TMDS Port 0 PLL VCC	3.3V
PVCC1	55	Power	TMDS Port 1 PLL VCC	3.3V
TMDSPGND	54	Ground	TMDS PLL GND	
AUDPVCC18	94	Power	ACR PLL VCC	1.8V
AUDPGND	95	Ground	ACR PLL GND	
XTALVCC	98	Power	ACR PLL Crystal Input VCC	3.3V
REGVCC	99	Power	ACR PLL Regulator VCC	3.3V

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -48

Q8506,Q8606: BR24L02FV-W(256x8 bit EEPROM)

BLOCK DIAGRAM AND PIN CONFIGURATION



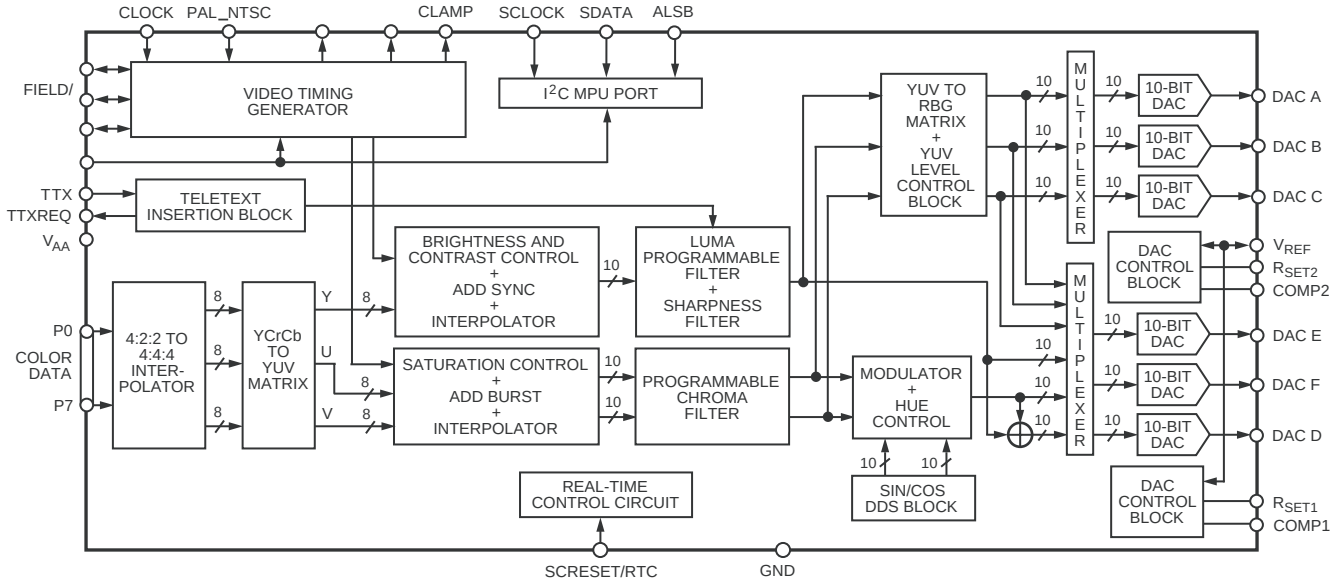
TERMINAL DESCRIPTION

Terminal	I/O	Function
Vcc	-	Apply a power source.
GND	-	Ground terminal
A0,A1,A2	I	Slave address setting terminal
SCL	I	Serial clock input
SDA	I/O	Slave and word address. Serial data input and output
WP	I	Write protect terminal

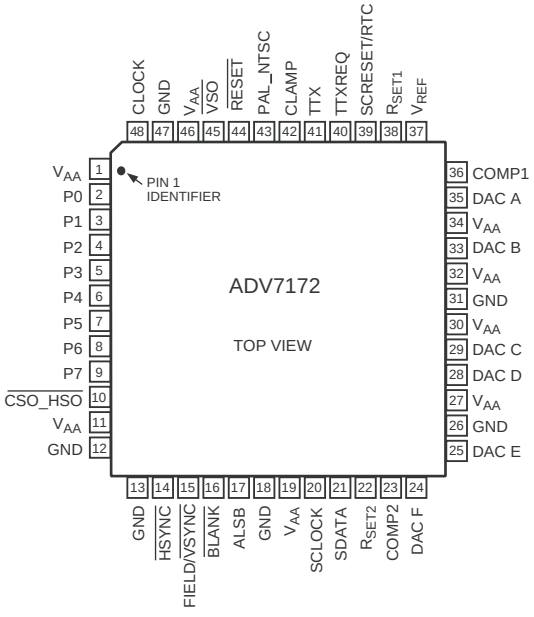
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -49

Q8801: ADV7172 (Digital PAL/NTSC Video Encoder with six DACs)

BLOCK DIAGRAM



PIN CONFIGURATION



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS -50

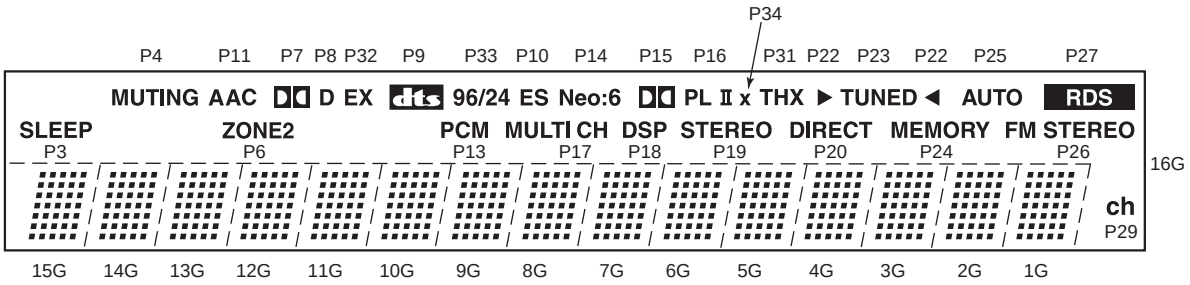
Q8801: ADV7172 (Digital PAL/NTSC Video Encoder with six DACs)

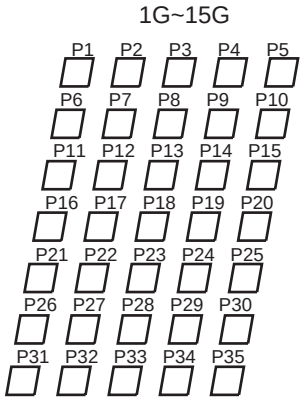
TERMINAL DESCRIPTION

Mnemonic	Input/Output	Function
P7–P0	I	8-Bit 4:2:2 Multiplexed YCrCb Pixel Port (P7ÐP0) P0 represents the LSB.
CLOCK	I	TTL Clock Input. Requires a stable 27 MHz reference clock for standard operation. Alternatively, a 24.5454 MHz (NTSC) or 29.5 MHz (PAL) can be used for square pixel operation.
$\overline{\text{HSYNC}}$	I/O	$\overline{\text{HSYNC}}$ (Modes 1 and 2) Control Signal. This pin may be configured to output (Master Mode) or as an input and accept (Slave Mode) Sync signals.
FIELD/$\overline{\text{VSYNC}}$	I/O	Dual Function FIELD (Mode 1) and $\overline{\text{VSYNC}}$ (Mode 2) Control Signal. This pin may be configured to output (Master Mode) or as an input (Slave Mode) and accept these control signals.
$\overline{\text{BLANK}}$	I/O	Video Blanking Control Signal. The pixel inputs are ignored when this is Logic Level "0." This signal is optional.
SCRESET/RTC	I	This pin can be configured as an input by setting MR42 and MR41 of Mode Register 4. It can be configured as a subcarrier reset pin, in which case a low-to-high transition on this pin will reset the subcarrier phase to Field 0. Alternatively it may be configured as a Real-Time Control (RTC) Input.
V_{REF}	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
R_{SET1}	I	A 150 resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs A, B, and C (the "large" DACs).
R_{SET2}	I	A 600 resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs D, E, and F (the "small" DACs).
COMP1	O	Compensation Pin for DACs A, B, and C. Connect a 0.1 uF Capacitor from COMP to V_{AA}. For Optimum Dynamic Performance in Low Power Mode, the value of the COMP1 capacitor can be lowered to as low as 2.2 nF.
COMP2	O	Compensation Pin for DACs D, E, and F. Co nnect a 0.1 uF Capacitor from COMP to V_{AA}.
DAC A	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 34.66 mA output.
DAC B	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 34.66 mA output.
DAC C	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 34.66 mA output.
DAC D	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 8.66 mA output.
DAC E	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 8.66 mA output.
DAC F	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 8.66 mA output.
SCLOCK	I	MPU Port Serial Interface Clock Input.
SDATA	I/O	MPU Port Serial Data Input/Output.
CLAMP	O	TTL Output Signal to external circuitry to enable clamping of all video signals.
PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation, pin set to Logic "1" selects PAL.
$\overline{\text{VSO}}$	O	$\overline{\text{VSO}}$ TTL Output Sync Signal.
CSO_$\overline{\text{HSO}}$	O	Dual Function $\overline{\text{CSO}}$ or $\overline{\text{HSO}}$ TTL Output Sync Signal.
ALSB	I	TTL Address Input. This signal sets up the LSB of the MPU address.
$\overline{\text{RESET}}$	I	The input resets the on-chip timing generator and sets the ADV7172/ADV7173 into default mode. This is NTSC operation, Timing Slave Mode 0, DACs A, B, and C powered OFF, DACs D, E, and F powered ON, Composite and S-Video out.
TTX	I	Teletext Data Input Pin.
TTXREQ	O	Teletext Data Request output signal used to control teletext data transfer.
V_{AA}	P	Power Supply (3 V to 5 V).
GND	G	Ground Pin.

FL TUBE VIEW

Q7501: HNA-16SM10T


P34
P4 P11 P7 P8 P32 P9 P33 P10 P14 P15 P16 P31 P22 P23 P22 P25 P27
MUTING AAC D EX 96/24 ES Neo:6 PL II x THX ▶ TUNED ◀ AUTO RDS
SLEEP ZONE2 PCM MULTI CH DSP STEREO DIRECT MEMORY FM STEREO
P3 P6 P13 P17 P18 P19 P20 P24 P26
16G
ch
P29
15G 14G 13G 12G 11G 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G



	16G	15G-1G
P1	A	1-1
P2	B	2-1
P3	SLEEP	3-1
P4	MUTING	4-1
P5	REC OUT	5-1
P6	ZONE2	1-2
P7	D D	2-2
P8	D	3-2
P9	dts	4-2
P10	ES	5-2
P11	AAC	1-3
P12	MP3	2-3
P13	PCM	3-3
P14	Neo:6	4-3
P15	D D PL	5-3
P16	II	1-4
P17	MULTI CH	2-4
P18	DSP	3-4

	16G	15G-1G
P19	STEREO	4-4
P20	DIRECT	5-4
P21		1-5
P22	▷ ◁	2-5
P23	TUNED	3-5
P24	MEMORY	4-5
P25	AUTO	5-5
P26	FM STEREO	1-6
P27	RDS	2-6
P28	ft	3-6
P29	ch	4-6
P30	dB	5-6
P31	THX	1-7
P32	EX	2-7
P33	96/24	3-7
P34	x	4-7
P35	WMA	5-7

MICROPROCESSOR TERMINAL DESCRIPTIONS -1

Q701: M30627FJPGP

No.	Pin Name	Function	I/O	Act.	Description
1	Vref	Vref	---	---	A/D Reference Voltage
2	AVcc	AVcc	---	---	A/D Power supply
3	P97/~ADTRG/SIN4	VMSDI	I	H	Data input pin from HDMI micro prosessor
4	P96/ANEX1/SOUT4	VMSDO	O	H	Data output pin to HDMI micro prosessor
5	P95/ANEX0/CLK4	VMCLK	O	CLK	Clock output pin to HDMI micro prosessor
6	P94/DA1/TB4IN	VCRST	O	H	Reset cotrol pin to Video Encoder/Decoder
7	P93/DA0/TB3IN	~VMUT	O	L	VIDEO MUTE control pin
8	P92/TB2IN/SOUT3	OSDSDO	O	H	Data output pin to OSD
9	P91/TB1IN/SIN3	SYNC	I	H	VIDEO SYNC detect pin
10	P90/TB0IN/CLK3	OSDCLK	O	CLK	Clock output pin to OSD
11	P141	~OSDCS	O	L	OSD chip select pin
12	P140	---	O	H	No use
13	BYTE	BYTE	---	---	External bus width select pin. Connect to Ground.
14	CNVSS	CNVss	---	---	Processor mode select pin. Connect to the ground via resistor.
15	P87/XCIN	RDSDATA	I	H	RDS data input from LA72725 in tuner pack
16	P86/XCOUT	XMSRSEL	O	H	XM/SIRIUS select pin
17	~RESET	~RESET	I	L	Reset input
18	XOUT	Xout	---	---	Ceramic oscillator connection pin.
19	VSS	Vss	---	---	Power supply Ground pin
20	XIN	Xin	---	---	Ceramic oscillator connection pin.
21	VCC1	Vcc1	---	---	Power supply pin
22	P85/~NMI	~NMI	I	L	No use
23	P84/~INT2	POFF	I	L	Power failure detection input
24	P83/~INT1	VSYNC	I	L	Vertical sync signal detection input.
25	P82/~INT0	~XMERRIRQ/~RDSCLK	I	L	(D-type)XM IC interrupt input / (P-type)RDS clock input / (Other type)No use
26	P81/TA4IN/~U	XMCOMSEL	O	H	Control output to XM IC
27	P80/TA4OUT/U	~XMDACRST	O	L	XM DAC reset pin
28	P77/TA3IN	~DIRINT0	I	H	DIR/Codec unlock detect pin
29	P76/TA3OUT	DSPFCS	O	L	DSP AB chip select pin
30	P75/TA2IN/~W	DSPBUSY	I	H	DSP C BUSY detect pin
31	P74/TA2OUT/W	~DSPINT	I	L	DSP C interrupt detect pin
32	P73/~CTS2/~RTS2/TA1IN/~V	~DSPFINT	I	L	DSP AB interrupt detect pin
33	P72/CLK2/TA1OUT/V	~SDET	I	L	S-VIDEO detect pin
34	P71/RXD2/SCL2/TA0IN/TB5IN	PLLSCL	O	CLK	I2C clock output to tuner pack
35	P70/TXD2/SDA2/TA0OUT	PLLSDA	I/O	H	I2C data input/output from/to tuner pack
36	P67/TXD1/SDA1	FTXD	O	H	Flash micro processor rewrite port
37	Vcc1	---	---	H	Power supply
38	P66/RXD1/SCL1	FRXD	I	H	Flash micro processor rewrite port
39	Vss	---	---	H	Power supply Ground
40	P65/CLK1	FCLK	O	CLK	Flash micro processor rewrite port
41	P64/~CTS1/~RTS1/~CTS0/CLKS1	FBUSY	O	H	Flash micro processor rewrite port
42	P63/TXD0/SDA0	XMSRTXD	O	H	XM/SIRIUS data output pin
43	P62/RXD0/SCL0	XMSRRXD	I	H	XM/SIRIUS data input pin
44	P61/CLK0	~XMRST	O	L	XM IC reset pin
45	P60/~CTS0/~RTS0	~DIRCS	O	L	DIR/Codec chip select pin
46	P137	OSDINV	O	H	OSD IC input select pin(Video)
47	P136	OSDINY	O	H	OSD IC input select pin(S Video)
48	P135	---	O	H	No use
49	P134	---	O	H	No use
50	P57/~RDY/CLKOUT	~DIRRST	O	L	DIR/Codec reset control pin
51	P56/ALE	~DSPCS	O	L	DSP chip select pin
52	P55/~HOLD	~FEPM	O	H	Flash micro processor rewrite port
53	P54/~HLDA	~DSPRST	O	L	DSP reset pin
54	P133	---	O	H	No use
55	P132	---	O	H	No use
56	P131	MCHSEL	O	H	ANALOG/HDMI MCLK select pin
57	P130	~ADCRST	O	L	Mult-ch AD Reset output
58	P53/BCLK	DIGCLK	O	CLK	DIR/Codec/DSP clock output pin
59	P52/~RD	DIGSDI	I	H	DIR/Codec/DSP data input pin
60	P51/~WRH/~BHE	DIGSDO	O	H	DIR/Codec/DSP data output pin
61	P50/~WRL/~WR	~FCE	I	H	Flash micro processor rewrite port
62	P127	---	O	H	No use
63	P126	Z2MUT	O	H	Mute output for ZONE2
64	P125	SBZ2MUT	O	H	Mute output for SB/ZONE2

MICROPROCESSOR TERMINAL DESCRIPTIONS -2
Q701: M30627FJPGP

No.	Pin Name	Function	I/O	Act.	Description
65	P47/~CS3	AMUT	O	H	Audio mute control pin
66	P46/~CS2	SPRLZ2	O	H	ZONE2 speaker relay control pin
67	P45/~CS1	SPRLSB	O	H	Surround Back speaker relay control pin
68	P44/~CS0	SPRLCS	O	H	Center/Surround Back speaker relay control pin
69	P43/A19	SPRLF	O	H	Front speaker relay control pin
70	P42/A18	VOLSTB	O	H	Volume Strobe output pin
71	P41/A17	VOLDATA/FSWSDO	O	H	Data output to R2S15211/Data output to NJU7311
72	P40/A16	VOLCLK/FSWCLK	O	CLK	Clock output to R2S15211/Clock output to NJU7311
73	P37/A15	FSWSTB	O	H	Strobe output to NJU7311
74	P36/A14	VPOWER	O	H	Power control output to video section
75	P35/A13	APOWER	O	H	Power source control output
76	P34/A12	~POFF2	I	L	POFF2 detect pin
77	P33/A11	~FANH	O	L	Fan control pin
78	P32/A10	~FANCTRL	O	L	Fan control pin
79	P31/A09	TRGZ2	O	H	12V trigger C output
80	P124	TRGB	O	H	12V trigger B output
81	P123	TRGA	O	H	12V trigger A output
82	P122	Z2VOLCLK	O	H	Clock output to ZONE2 volume IC
83	P121	Z2VOLDAT	O	H	Data output to ZONE2 volume IC
84	P120	Z2VOLMUT	O	H	Mute output to ZONE2 volume IC
85	VCC2	Vcc2	---	---	Power supply
86	P30/A8(/-/D7)	SEC1H	O	H	Voltage-select control pin
87	VSS	Vss	---	---	Power supply Ground
88	P27/AN27/A7(/D7/D6)	PROTECT	I	H	Protection detect pin
89	P26/AN26/A6(/D6/D5)	VOLH	I	A/D	Signal level protection detect pin
90	P25/AN25/A5(/D5/D4)	THERMAL	I	A/D	Thermal protection detect pin
91	P24/AN24/A4(/D4/D3)	INIT3	I	A/D	Initializing pin 3
92	P23/AN23/A3(/D3/D2)	INIT2	I	A/D	Initializing pin 2
93	P22/AN22/A2(/D2/D1)	INIT1	I	A/D	Initializing pin 1
94	P21/AN21/A1(/D1/D0)	BAND	I	A/D	Initializing pin for tuner frequency
95	P20/AN20/A0(/D0/-)	~SYSOUT	O	L	RI output pin
96	P17/D15/~INT5	SYSIN	I	H	RI input pin
97	P16/D14/~INT4	~IRIN	I	L	IRIN remote control input pin
98	P15/D13/~INT3	~REMIN	I	L	Remote controller signal input pin
99	P14/D12	~STEREO	I	H	FM Stereo detect pin
100	P13/D11	~SD	I	H	FM/AM TUNED detect pin
101	P12/D10	HPDET	I	H	Headphone detection input
102	P11/D9	VOLB	I	H	Master volume rotary encoder input
103	P10/D8	VOLA	I	H	Master volume rotary encoder input
104	P07/AN07/D7	---	O	H	No use
105	P06/AN06/D6	LEDZONE2	O	H	Zone2 LED control pin
106	P05/AN05/D5	LEDPURE	O	H	No use
107	P04/AN04/D4	~LEDSTBY	O	H	STANDBY LED control pin
108	P03/AN03/D3	FLDSDO	O	H	Serial data output for FL driver M66005
109	P02/AN02/D2	FLDCLK	O	CLK	Clock output for FL driver M66005
110	P01/AN01/D1	~FLDCS	O	L	Chip select output for FL driver M66005
111	P00/AN00/D0	~FLDRST	O	L	Reset output for FL driver M66005
112	P117	~MICDET	I	L	Microphone detect input
113	P116	---	O	H	No use
114	P115	---	O	H	No use
115	P114	---	O	H	No use
116	P113	~VMRST	O	L	HDMI micro processor reset pin
117	P112	VMSTB	I	H	HDMI micro processor strobe input
118	P111	TXMUTE	O	H	HDMI micro processor mute pin
119	P110	RXMUTE	I	H	HDMI micro processor RXMUTE detect pin
120	P107/AN7/~KI3	~KEYINT3	I	L	Key input interrupt 3
121	P106/AN6/~KI2	~KEYINT2	I	L	Key input interrupt 2
122	P105/AN5/~KI1	~KEYINT1	I	L	Key input interrupt 1
123	P104/AN4/~KI0	~KEYINT0	I	L	Key input interrupt 0
124	P103/AN3	KEY3	I	A/D	Key input 3
125	P102/AN2	KEY2	I	A/D	Key input 2
126	P101/AN1	KEY1	I	A/D	Key input 1
127	AVIS	AVss	---	---	Ground for A/D
128	P100/AN0	KEY	I	A/D	Key input 0

ADJUSTMENT PROCEDURE-1

IDLING CURRENT ADJUSTMENT

[When]

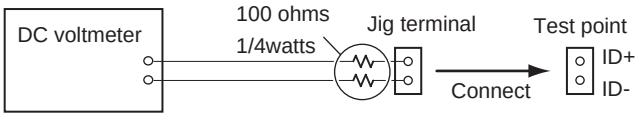
Exchanging the power transistor (Q6050 - Q6056, Q6060 - Q6066) and Amplifier PC board (NAAF-8678, NAAF-8682).

[Procedure]

<Note> No load and No signal

Refer to <Fig-1> in " ADJUSTMENT PROCEDURE-2 " for the adjustment points and the test points.

1. Before idling current adjustment, turn the trimming resistors to counter clockwise.
2. Connect the dc voltmeter to the test points, using two 100 ohm resistors between the poles of the jig terminal and the dc voltmeter terminals.



3. Connect the ac power cord to a wall outlet.
4. Press the STANDBY/ON button to turn the power on.
5. Adjust the trimming resistors as the following procedure immediately after power on.

Channel	Mark	Adjustment point (Trimming resistor)	Measuring point (Test point)	Adjustment value
Center	C	R6040	P6080	2.5 mV
Front Left	L	R6041	P6081	2.5 mV
Front Right	R	R6042	P6082	2.5 mV
Surround Left	SL	R6043	P6083	1.5 mV
Surround Right	SR	R6044	P6084	1.5 mV
Surround Back Left	SBL	R6045	P6085	1.5 mV
Surround Back Right	SBR	R6046	P6086	1.5 mV

6. Wait for 4 - 6 minutes. (Heat running)
7. Re-adjust the trimming resistors as the following procedure.

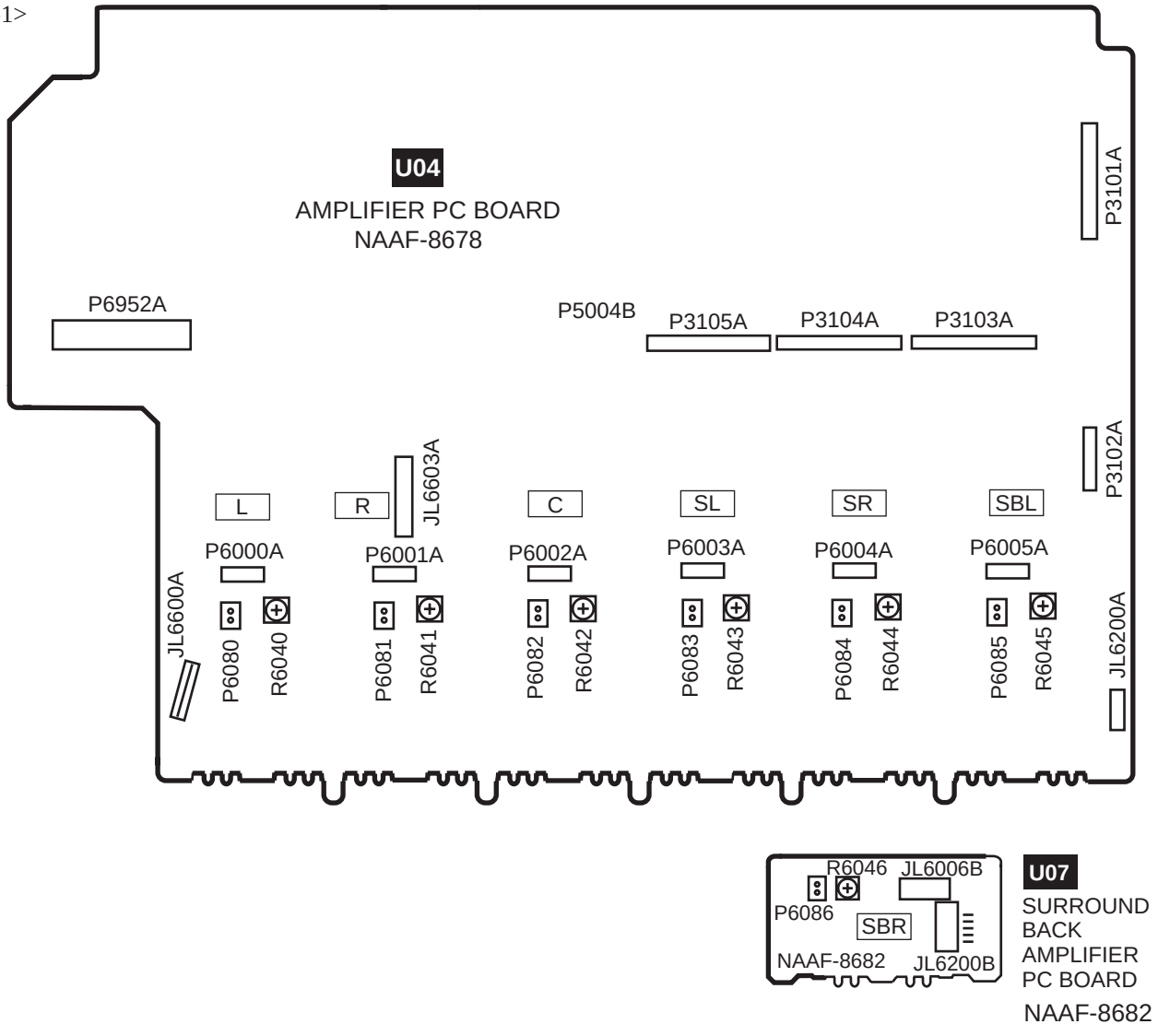
Channel	Adjustment point	Measured value → Adjustment value	Specifications (＊In a stable state)
Front Left, Right and Center	R6041, R6042 and R6040	In case below 9 mV → 9 mV In case 9 - 11 mV → No re-adjustment In case over 11 mV → 11 mV	12 +/- 3 mV
Surround Left Surround Right Surround Back Left Surround Back Right	R6043, R6044, R6045 and R6046	In case below 6 mV → 6 mV In case 6 - 8 mV → No re-adjustment In case over 8 mV → 8 mV	9 +/- 3 mV

8. Disconnect the dc voltmeter.
9. Press the STANDBY/ON button to turn the power off.
10. Disconnect the ac power cord of the unit.

＊ Idling currents are stabilized in about 10 minutes after power on.

ADJUSTMENT PROCEDURE-2
IDLING CURRENT ADJUSTMENT

<Fig-1>



U07
SURROUND BACK AMPLIFIER PC BOARD
NAAF-8682

FIRMWARE UPDATE -1

How to Check Versions of Main, DSP and Video(HDMI) microprocessor

1. Press and hold down DISPLAY button, then press STANDBY/ON button when the unit is power on.
   The main microprocessor version will be displayed on FL for 3 seconds.

<Ex.> `Ver.1.01/06920a`

2. Press SETUP button while the version is displayed, then " DSP Ver: " will be displayed.

`DSP Ver:`

3. Press ENTER button while " DSP Ver: " is displayed, then " DSP F/W Update " will be displayed.

`DSP F/W Update`

4. Again, press and hold down DISPLAY button, then press STANDBY/ON button in order to get DSP version.
5. Press SETUP button a few times.
   The versions of DSP ROM ---> HDMI micom ---> Main micom will be displayed in turn.

<Ex.> `DSP Ver:05Y28A`
↓
<Ex.> `HDM.Ver:06607A`
↓
<Ex.> `Ver.1.01/06920a`

6. To check DSP version next time, the procedures of 2-4 are not necessary until the power cord is off.

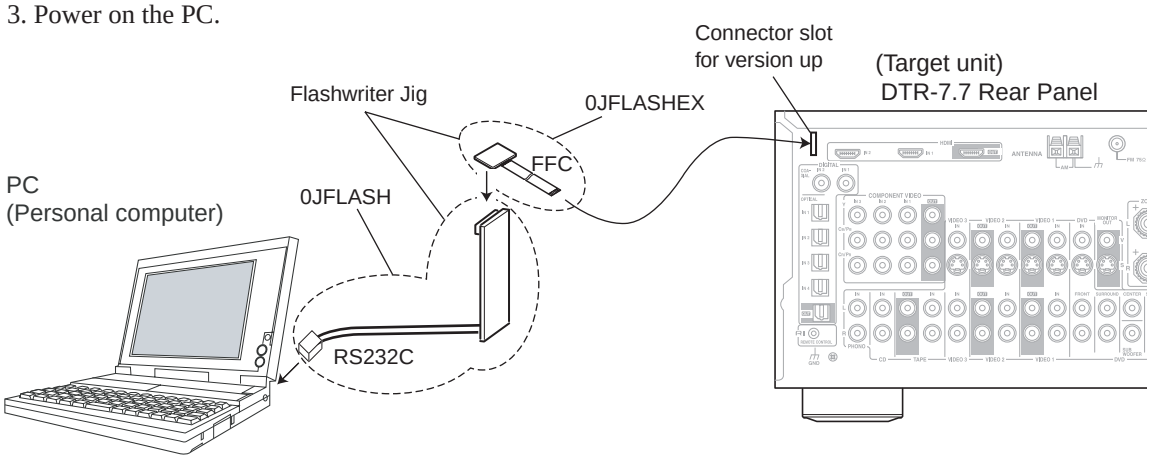
Preparation for Update

Hardware and Software

1. Personal computer(PC) with Windows XP or 2000
2. Flashwriter jig: 0JFLASH and 0JFLASHEX
3. Writing soft: "flasta_exe.zip" and Manual: "Flash Writer M16 Manual.pdf" for Main microprocessor
4. Writing soft: "firmware.zip" and "Update.exe" for DSP and Video(HDMI) microprocessors

First Procesure

1. Press STANDBY/ON button to power off the target unit.
   Power off the PC and connect 0JFLASH and 0JFLASHEX to RS232 port of the PC.
2. Connect the FFC of the jig to the connector slot on the rear panel of DTR-7.7.
3. Power on the PC.



FIRMWARE UPDATE -2

Main Microprocessor Update Procedure

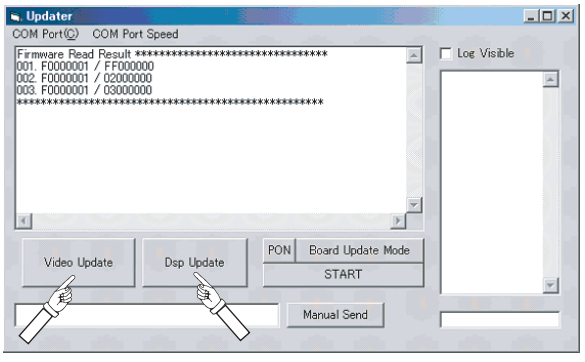
1. Douwnload "flasta_exe.zip" to the PC and unzip. "FlashSta.exe" will be created.
2. Download the latest ".mot" and ".id" files for DTR-7.7 to the same folder as the unzipped file of 1.
3. Download "Flash Writer M16 Manual.pdf" to the PC and open it.
4. Power on the unit and confirm that the jig is connected between PC and the unit.
5. According to the Manual, start "FlashSta.exe" to update the unit. MCU Type is M16C/20 62.
   It takes about 5 minutes.
6. After it ends, click "Exit" button to end "FlastSta.exe".
7. Pull the power cord off the wall socket.
   Pay attention that pushing STANDBY/ON button to power off is not perfect.
8. Remove the jig from the unit and power on the unit again. Confirm the new version number.

DSP and Vide(HDMI) Update Procedure

1. Make a folder in the PC or on desktop, which name is "Updater_DTR" for example.
2. Save the latest files "Update.exe" and "firmware.zip" in the folder above or on desktop.
3. Unzip "firmware.zip" and confirm that "firmware" folder is created in "Updater_SR804" folder.
   And confirm that the following 4 programs are created in "SR804" folder under "firmware" folder.
   fdist.fdf
   FW804.dcf
   DSP7803_05Y28A.s28
   674HDMI6X03A.mot
4. Power on the unit and confirm the jig is connected between the PC and the unit.
5. According to the peocedure of previous page, display DSP version on FL, and press ENTER button to display "DSP F/W Update", which is DSP firmware update mode.

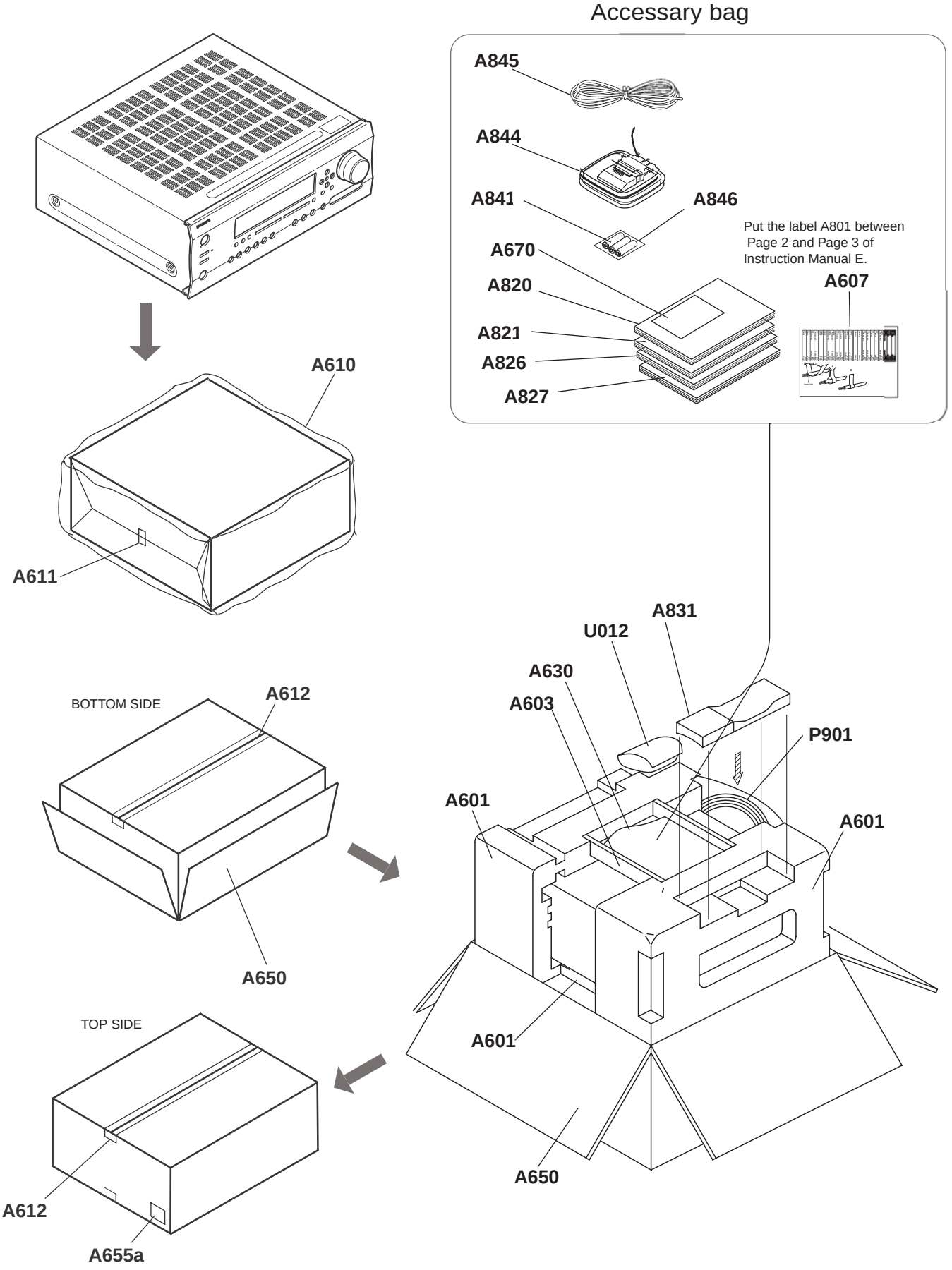
   DSP F/W Update

6. Double click "Update.exe" on the PC. The following window will apear.



7. Click "Video Update" button for Video(HDMI) microprocessor update, or click "Dsp Update" button for DSP microprocessor update. The update takes about 5 minutes each.
8. After the update ends, pull the power cord off the wall socket.
9. Remove the jig from the unit and power on the unit again. Confirm the new version number.

PACKING PROCEDURE



DTR-7.7

<Note>

Parts marked by '**NSP**' are generally unavailable because they are not in our Master Spare Parts List.

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK **!** ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<Notes>

(B) : Black model <DD> : DTR-7.7 USA model
<PA> : DTR-7.7 Australian model

EXPLODED VIEW PARTS LIST

REF. NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
A001	F BRACKET	.	1	27111427B	
A002	BADGE	.	1	28135278	
A0021	KNOB	(STANDBY)	1	28325756	
A003	FACET	.	2	28198905	
A0031	SCREW	3TTB+8B(CU)SR	5	801618	
A0041	SCREW	3TTB+8B(CU)SR	1	801618	
A005	SCREW	3TTB+8B(3BC)	3	838430088GR	
A0051	SCREW	3TTB+8B(CU)SR	2	801618	
A006	KNOB	(VOL)AS	1	28326231	
A007	SCREW	3TTB+8B(CU)SR	3	801618	
A008	CLEAR PLT	.	1	28192078	
A009	DECO FRM	.	1	27215377	
A010	B PLATE	.	1	28133418	
A0101	GUIDE	(VOL)	1	27268128	
A011	RETAINER	(HP)	1	27141787	
A012	CUSHION	.	3	28141650	
A044	CUSHION	.	4	28141637	
A050	CHASSIS	.	1	---	NSP
A051	BRACKET	(FR)	1	27130991A	
A052	HOLDER	HOLDER KGLS-18S	1	27190470	
A053	HOLDER	KGLS-14RT	3	27190524	
A054	HOLDER	KGPS-16RF	3	27190991	
A055	WIRE TIE	BSK-1	9	260208	
A056	SCREW	4TTC+8C(3BC)	4	830440089GR	
A057	SCREW	3TTB+8B(CU)SR	2	801618	
A059	HOLDER	KGPS-14RF	1	27190802	
A060	BRACKET	(FAN)	1	27130990	
A062	SCREW	5TTB+10B(3BC)	4	838450108GR	

A063	SPACER	.	1	27270439	
A064	HOLDER	(CRAMP) UA-0 V0	1	27190608-1	
A065	SPACER	SPACER 8X3X0.188	1	27270147	
A067	BRACKET(U)	.	1	27131004	
A068	HOLDER	.	1	27191279	
A069	SCREW	3TTB+10B(3CM)	1	838130108GR	
A070	CUSHION	.	2	28141707	
A077	SCREW	3TTB+8B(CU)SR	1	801618	
A080	HEAT SINK	AS.	1	27160565A	
A081	TAPE	TAPE(CLOTH-16U)	1	29110083	
A082	SCREW	3SMH10W.SW+15B(CU)	14	801606	
A087	BRACKET	BRACKET	2	27130745	
A089	IB CUSHION	W15*3t TAPE	1	28141585	
A090	SHLD PLT	(FFC)	1	27150514	
A095	COVER	(B)	1	28184952	
A096	CUSHION	t5*30*5	2	28141562	
A097	CUSHION	t3*50*10	2	28141563	
A099	LABEL	(COVER)	1	29364123	
A100	SCREW	4TTB+8C(3BC)	4	838440089GR	
A101	SCREW	3TTB+8B(3BC)	4	838430088GR	
A102	TAPE	TAPE(CLOTH-16U)	1	29110083	
A103	TAPE	TAPE(CLOTH-8U)	1	29110082	
A105	SCREW	3TTB+8B(CU)SR	20	801618	
A106	SCREW	3TTB+8B(3BC)	2	838430088GR	
A110	LABEL	(PT)	1	29364345	
A111	LEG	AS	4	27175418	
A112	CUSHION	.	4	28141647	
A114	SCREW	3TTB+8B(3BC)	4	838430088GR	
A115	CLIP	CS-1U	1	27255004	
A401	REAR PANEL	7.7MDD	1	27123644A	<DD>
A401	REAR PANEL	7.7MPA	1	27123645A	<PA>
A402	SCREW	3TTB+8B(3BC)	47	838430088GR	<DD>
A402	SCREW	3TTB+8B(3BC)	45	838430088GR	<PA>
A403	WASHER	W3*10F(3BC)	1	87643010GR	
A404	SCREW	3TTB+8B(3CM)	1	838130088GR	
A405	SCREW	4TTB+8C(3BC)	2	838440089GR	
A407	SCREW	3TTB+10B(3BC)	5	838430108GR	
A408	SCREW	3TTB+8B(CU)SR	2	801618	
A410	F PANEL	7.7(B)MDD	1	27212961	<DD>
A410	F PANEL	7.7(B)MPA	1	27212962	<PA>
A430	SCREW	3TTW+8B(3BC)	1	831430088GR	
F6901	FUSE	12A-TUL-250V	1	252301GR	!
F6902	FUSE	12A-TUL-250V	1	252301GR	!
F901	FUSE	10A-UL/T-233	1	252330GR	!,<DD>
F901	FUSE	6.3A-SE-EAK FUSE	1	252079GR	!,<PA>

F903	FUSE	2.5A-SE-EAK FUSE	1	252075GR	!,<PA>
F903	FUSE	5A-UL/T-233	1	252326GR	!,<DD>
F931	FUSE	1.6A-SE-EAK IECFUSE	1	252073GR	!
F932	FUSE	1.6A-SE-EAK IECFUSE	1	252073GR	!
F951	FUSE	6.3A-SE-EAK FUSE	1	252079GR	!
F952	FUSE	6.3A-SE-EAK FUSE	1	252079GR	!
P601	FFC	NCFC5-351012	1	2045351012	
P691	FAN	D09A-12TG08(EX)	1	24502319	
P701	FFC	NCFC7-131012	1	2047131012	
P710	FFC	NCFC7-170512	1	2047170512	<DD>
P7534	FFC	NCFC5-405512	1	2045405512	
P8000	FFC	NCFC7-212012	1	2047212012	
Q6050	TR	2SC5242-R	1	2202842	
Q6050 or	TR	2SC5242-O	(1)	2202843	
Q6050 or	TR	MN150S-O	(1)	2203683	
Q6050 or	TR	MN150S-P	(1)	2203686	
Q6050 or	TR	MN150S-Y	(1)	2203684	
Q6050A	ISO SHEET	AC238	14	223024	
Q6051	TR	2SC5242-R	1	2202842	
Q6051 or	TR	2SC5242-O	(1)	2202843	
Q6051 or	TR	MN150S-O	(1)	2203683	
Q6051 or	TR	MN150S-P	(1)	2203686	
Q6051 or	TR	MN150S-Y	(1)	2203684	
Q6052	TR	2SC5242-R	1	2202842	
Q6052 or	TR	2SC5242-O	(1)	2202843	
Q6052 or	TR	MN150S-O	(1)	2203683	
Q6052 or	TR	MN150S-P	(1)	2203686	
Q6052 or	TR	MN150S-Y	(1)	2203684	
Q6053	TR	2SC5242-R	1	2202842	
Q6053 or	TR	2SC5242-O	(1)	2202843	
Q6053 or	TR	MN150S-O	(1)	2203683	
Q6053 or	TR	MN150S-P	(1)	2203686	
Q6053 or	TR	MN150S-Y	(1)	2203684	
Q6054	TR	2SC5242-R	1	2202842	
Q6054 or	TR	2SC5242-O	(1)	2202843	
Q6054 or	TR	MN150S-O	(1)	2203683	
Q6054 or	TR	MN150S-P	(1)	2203686	
Q6054 or	TR	MN150S-Y	(1)	2203684	
Q6055	TR	2SC5242-R	1	2202842	
Q6055 or	TR	2SC5242-O	(1)	2202843	
Q6055 or	TR	MN150S-O	(1)	2203683	
Q6055 or	TR	MN150S-P	(1)	2203686	
Q6055 or	TR	MN150S-Y	(1)	2203684	
Q6056	TR	2SC5242-R	1	2202842	
Q6056 or	TR	2SC5242-O	(1)	2202843	

Q6056 or	TR	MN150S-O	(1)	2203683	
Q6056 or	TR	MN150S-P	(1)	2203686	
Q6056 or	TR	MN150S-Y	(1)	2203684	
Q6060	TR	2SA1962-R	1	2202832	
Q6060 or	TR	2SA1962-O	(1)	2202833	
Q6060 or	TR	MP150S-O	(1)	2203693	
Q6060 or	TR	MP150S-P	(1)	2203696	
Q6060 or	TR	MP150S-Y	(1)	2203694	
Q6061	TR	2SA1962-R	1	2202832	
Q6061 or	TR	2SA1962-O	(1)	2202833	
Q6061 or	TR	MP150S-O	(1)	2203693	
Q6061 or	TR	MP150S-P	(1)	2203696	
Q6061 or	TR	MP150S-Y	(1)	2203694	
Q6062	TR	2SA1962-R	1	2202832	
Q6062 or	TR	2SA1962-O	(1)	2202833	
Q6062 or	TR	MP150S-O	(1)	2203693	
Q6062 or	TR	MP150S-P	(1)	2203696	
Q6062 or	TR	MP150S-Y	(1)	2203694	
Q6063	TR	2SA1962-R	1	2202832	
Q6063 or	TR	2SA1962-O	(1)	2202833	
Q6063 or	TR	MP150S-O	(1)	2203693	
Q6063 or	TR	MP150S-P	(1)	2203696	
Q6063 or	TR	MP150S-Y	(1)	2203694	
Q6064	TR	2SA1962-R	1	2202832	
Q6064 or	TR	2SA1962-O	(1)	2202833	
Q6064 or	TR	MP150S-O	(1)	2203693	
Q6064 or	TR	MP150S-P	(1)	2203696	
Q6064 or	TR	MP150S-Y	(1)	2203694	
Q6065	TR	2SA1962-R	1	2202832	
Q6065 or	TR	2SA1962-O	(1)	2202833	
Q6065 or	TR	MP150S-O	(1)	2203693	
Q6065 or	TR	MP150S-P	(1)	2203696	
Q6065 or	TR	MP150S-Y	(1)	2203694	
Q6066	TR	2SA1962-R	1	2202832	
Q6066 or	TR	2SA1962-O	(1)	2202833	
Q6066 or	TR	MP150S-O	(1)	2203693	
Q6066 or	TR	MP150S-P	(1)	2203696	
Q6066 or	TR	MP150S-Y	(1)	2203694	

<Notes>

When replacing the following transistors, use ones of the same Hfe rank as the original type.

Ref. No. : Q6050 - 6060, Q6051 - 6061, Q6052 - 6062, Q6053 - 6063, Q6054 - 6064, Q6055 - 6065, Q6056 - 6066

T901	P TRANS	NPT-1526D	1	2301830	!, <DD>
T901	P TRANS	NPT-1526P	1	2301831	!, <PA>
U01	DISPLAY PC board ass'y	NADIS-8683-3C	1	1B162583-3C	
U02	FRONT VIDEO PC board ass'y	NAETC-8684-3C	1	1B162584-3C	

U03	HEADPHONE TERMINAL PC board ass'y	NAETC-8685-3C	1	1B162585-3C	
U25	VOLUME PC board ass'y	NAETC-8687-3C	1	1B162587-3C	
U04	AMPLIFIER PC board ass'y	NAAF-8678-2H	1	1B162578-2H	
U05	THERMAL DETECTOR PC board ass'y	NAETC-8680-2H	1	1B162580-2H	
U07	SURROUND BACK AMPLIFIER PC board ass'y	NAAF-8682-2H	1	1B162582-2H	
U08	HDMI PC board ass'y	NAVD-8824-1A	1	1B126524-1A	
U09	VIDEO PC board ass'y	NAVD-8991-1D	1	1B162591-1D	<DD>
		NAVD-8991-1E	1	1B162591-1E	<PA>
U12	XM PC board ass'y	NARF-8994-1D	1	1B162594-1D	
U13	DSP PC board ass'y	NADG-8996-1G	1	1B162596-1G	<DD>
		NADG-8996-1H	1	1B162596-1H	<PA>
U14	MICROPROCESSOR PC board ass'y	NAAR-8997-1G	1	1B162597-1G	<DD>
		NAAR-8997-1H	1	1B162597-1H	<PA>
U16	POWER SUPPLY PC board ass'y	NAPS-8999-1H	1	1B162599-1H	<DD>
		NAPS-8999-1Y	1	1Y162599-1Y	<PA>
U17	POWER SUPPLY PC board ass'y	NAPS-9000-1H	1	1Y162500-1H	<DD>
		NAPS-9000-1Y	1	1Y162500-1Y	<PA>
U18	SP TERMINAL PC board ass'y	NAETC-9001-1H	1	1Y162501-1H	<DD>
		NAETC-9001-1Y	1	1Y162501-1Y	<PA>
U19	SP TERMINAL PC board ass'y	NAETC-9002-1H	1	1Y162502-1H	<DD>
		NAETC-9002-1Y	1	1Y162502-1Y	<PA>
U20	DRIVER AMPLIFIER PC board ass'y	NAAF-9003-1H	1	1Y162503-1H	<DD>
		NAAF-9003-1Y	1	1Y162503-1Y	<PA>
U24	INLET PC board ass'y	NAETC-9006-1H	1	1B162506-1H	<DD>
		NAETC-9006-1Y	1	1B162506-1Y	<PA>
U011	TUNER UNIT	FAE385-A11US	1	240152	<DD>
U011 or	TUNER UNIT	ENG06507QFUS	(1)	240156	<DD>
U011	TUNER UNIT	FAE485-E12EX	1	240155	<PA>
U011 or	TUNER UNIT	ENG07506QFEX	(1)	240159	<PA>

PC BOARD PARTS LIST

U01	**DISPLAY PC BOARD (NADIS-8683-3C)**
U02	**FRONT VIDEO PC BOARD (NAETC-8684-3C)**
U03	**HEADPHONE TERMINAL PC BOARD (NAETC-8685-3C)**
U25	**VOLUME PC BOARD(NAETC-8687-3C)**

CIRCUIT NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
U7501	REMO SENS	GP1UM281XKVFH=16MM	1	241361	
U7641	PHT CP	TORX177L	1	24120127	
Q7501	FL TUBE	HNA-16SM10T	1	212249GRA	
Q7501A	HOLDER	(FL)	1	27191222B	
Q7502	IC	M66005-0001AHP	1	22242208R3	
Q7503	TR	KTC3875-GR	1	2216175R2	

Q7503 or	TR	2SC2712-GR	(1)	2213145R2
Q7506	TR	KRC102S	1	2216190R2
Q7506 or	TR	RN1402	(1)	2214470R2
Q7509	TR	KRA102S	1	2216220R2
Q7509 or	TR	RN2402	(1)	2214530R2
Q7510	TR	KTC3875-GR	1	2216175R2
Q7510 or	TR	2SC2712-GR	(1)	2213145R2
Q7515	IC	NE5532APSR	1	22242283R2
Q7601	IC	NE5532APSR	1	22242283R2
Q7602	TR	RN1441	1	2215410R2
Q7605	TR	RN1441	1	2215410R2
Q7607	TR	RN1441	1	2215410R2
D7501	ZENER D	UDZS8.2B	1	224550820R2
D7501 or	ZENER D	MAZ8082	(1)	224750820R2
D7502	LED	SLI-343URC-TE7	1	225449T
D7503	LED	SEL4310G-D	1	225292DT
D7503 or	LED	SEL4410G	(1)	225454T
D7503 or	LED	SLR-342MGTE7P	(1)	225455T
D7601	ZENER D	UDZS5.1B	1	224550510R2
D7601 or	ZENER D	MAZ8051	(1)	224750510R2
L7501	CHOKE COIL	NCH-1471	1	231237K022R2
L7501 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7502	CHOKE COIL	NCH-1471	1	231237K022R2
L7502 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7503	CHOKE COIL	NCH-1471	1	231237K022R2
L7503 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7603	CHOKE COIL	NCH-1471	1	231237K022R2
L7603 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7604	CHOKE COIL	NCH-1471	1	231237K022R2
L7604 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7621	CHOKE COIL	NCH-1471	1	231237K022R2
L7621 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7622	CHOKE COIL	NCH-1471	1	231237K022R2
L7622 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7623	CHOKE COIL	NCH-1471	1	231237K022R2
L7623 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
L7641	CHOKE COIL	NCH-1471	1	231237K022R2
L7641 or	CHOKE COIL	NCH-1587-022M	(1)	233533M022R2
C7501	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7502	ELECT C	CE04W6.3V-100M(S)	1	353721019T
C7504	C-CERA C	CK725F1H-473Z1	1	332154730R1
C7505	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7506	C-CERA C	CK725F1H-104Z1	1	332151040R1
C7507	C-CERA C	CK725F1H-104Z1	1	332151040R1
C7508	C-CERA C	CK725F1H-223Z1	1	332152230R1

C7509	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7510	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7511	ELECT C	CE04W50V-33M	1	355783309T
C7512	C-CERA C	CK725F1H-473Z1	1	332154730R1
C7513	C-CERA C	CK725F1H-473Z1	1	332154730R1
C7514	C-CERA C	CK725F1H-104Z1	1	332151040R1
C7515	C-CERA C	CC725CH1H-122J1	1	342101224R1
C7516	C-CERA C	CC725CH1H-101J1	1	342101014R1
C7517	C-CERA C	CC725CH1H-101J1	1	342101014R1
C7518	C-CERA C	CC725CH1H-101J1	1	342101014R1
C7519	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7520	C-CERA C	CC725CH1H-101J1	1	342101014R1
C7521	ELECT C	CE04W6.3V-100M(S)	1	353721019T
C7522	MMT C	MMT50V-474J	1	375524744T
C7523	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7554	ELECT C	CE04W50V-2.2M(S)	1	353780229T
C7591	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7592	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7600	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7603	C-CERA C	CC725CH1H-101J1	1	342101014R1
C7605	C-CERA C	CC725CH1H-330J1	1	342103304R1
C7607	ELECT C	CE04W16V-10M(S)	1	353741009T
C7609	ELECT C	CE04W16V-10M(S)	1	353741009T
C7610	ELECT C	CE04W16V-47M(S)	1	353744709T
C7612	ELECT C	CE04W16V-47M(S)	1	353744709T
C7613	ELECT C	CE04W16V-47M(S)	1	353744709T
C7621	C-CERA C	CC725CH1E-102J1	1	342111024R1
C7622	C-CERA C	CC725CH1E-102J1	1	342111024R1
C7623	C-CERA C	CK725F1H-104Z1	1	332151040R1
C7624	C-CERA C	CK725B1H-102K1	1	332101025R1
C7631	C-CERA C	CC725CH1H-471J1	1	342104714R1
C7632	C-CERA C	CC725CH1H-471J1	1	342104714R1
C7633	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7634	C-CERA C	CK725F1E-104Z1	1	332161040R1
C7641	VR C	CE04W16V-100M(VR)	1	394641017T
C7642	C-CERA C	CK725F1E-104Z1	1	332161040R1
R7501	C-CARBON R	RN72K1J-104JE	1	435031044R1
R7517	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7518	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7519	C-CARBON R	RN72K1J-273JE	1	435032734R1
R7520	C-CARBON R	RN72K1J-332JE	1	435033324R1
R7521	C-CARBON R	RN72K1J-332JE	1	435033324R1
R7522	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7523	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7527	C-CARBON R	RN72K1J-101JE	1	435031014R1

R7528	C-CARBON R	RN72K1J-102JE	1	435031024R1
R7529	C-CARBON R	RN72K1J-101JE	1	435031014R1
R7530	C-CARBON R	RN72K1J-222JE	1	435032224R1
R7542	C-CARBON R	RN72K1J-181JE	1	435031814R1
R7545	C-CARBON R	RN72K1J-102JE	1	435031024R1
R7546	C-CARBON R	RN72K1J-102JE	1	435031024R1
R7551	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7552	C-CARBON R	RN72K1J-471JE	1	435034714R1
R7553	C-CARBON R	RN72K1J-561JE	1	435035614R1
R7554	C-CARBON R	RN72K1J-821JE	1	435038214R1
R7555	C-CARBON R	RN72K1J-122JE	1	435031224R1
R7556	C-CARBON R	RN72K1J-222JE	1	435032224R1
R7557	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7558	C-CARBON R	RN72K1J-471JE	1	435034714R1
R7559	C-CARBON R	RN72K1J-561JE	1	435035614R1
R7560	C-CARBON R	RN72K1J-821JE	1	435038214R1
R7561	C-CARBON R	RN72K1J-122JE	1	435031224R1
R7562	C-CARBON R	RN72K1J-222JE	1	435032224R1
R7563	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7564	C-CARBON R	RN72K1J-471JE	1	435034714R1
R7565	C-CARBON R	RN72K1J-561JE	1	435035614R1
R7566	C-CARBON R	RN72K1J-821JE	1	435038214R1
R7567	C-CARBON R	RN72K1J-122JE	1	435031224R1
R7568	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7569	C-CARBON R	RN72K1J-471JE	1	435034714R1
R7570	C-CARBON R	RN72K1J-561JE	1	435035614R1
R7571	C-CARBON R	RN72K1J-821JE	1	435038214R1
R7572	C-CARBON R	RN72K1J-122JE	1	435031224R1
R7573	C-CARBON R	RN72K1J-222JE	1	435032224R1
R7574	C-CARBON R	RN72K1J-392JE	1	435033924R1
R7576	C-CARBON R	RN72K1J-222JE	1	435032224R1
R7577	C-CARBON R	RN72K1J-392JE	1	435033924R1
R7578	C-CARBON R	RN72K1J-123JE	1	435031234R1
R7579	C-CARBON R	RN72K1J-392JE	1	435033924R1
R7580	C-CARBON R	RN72K1J-392JE	1	435033924R1
R7581	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7582	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7591	C-CARBON R	RN72K1J-103JE	1	435031034R1
R7592	C-CARBON R	RN72K1J-103JE	1	435031034R1
R7600	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7605	C-CARBON R	RN72K1J-104JE	1	435031044R1
R7606	C-CARBON R	RN72K1J-102JE	1	435031024R1
R7607	C-CARBON R	RN72K1J-224JE	1	435032244R1
R7609	C-CARBON R	RN72K1J-333JE	1	435033334R1
R7611	C-CARBON R	RN72K1J-221JE	1	435032214R1

R7613	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7618	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7621	C-CARBON R	RN72K1J-100JE	1	435031004R1
R7622	C-CARBON R	RN72K1J-101JE	1	435031014R1
R7623	C-CARBON R	RN72K1J-100JE	1	435031004R1
R7624	C-CARBON R	RN72K1J-563JE	1	435035634R1
R7625	C-CARBON R	RN72K1J-563JE	1	435035634R1
R7631	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7632	C-CARBON R	RN72K1J-331JE	1	435033314R1
R7633	C-CARBON R	RN72K1J-750JE	1	435037504R1
R7634	C-CARBON R	RN72K1J-820JE	1	435038204R1
R7635	C-CARBON R	RN72K1J-750JE	1	435037504R1
R7641	C-CARBON R	RN72K1J-221JE	1	435032214R1
R7703	C-CARBON R	RN72K1J-472JE	1	435034724R1
R7711	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7712	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7713	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7714	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7715	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7716	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7718	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7719	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7721	C-CARBON R	RN72K1J-000JE	1	435030004R1
R7722	C-CARBON R	RN72K1J-000JE	1	435030004R1
JL7501	JUMPER LEAD	JL3 150 H	1	3J150606H
JL7501A	WIRE HOL	NSCT-3P894	1	25051107
JL7501B	SOCKET	NSCT-3P95	1	25050267
JL7503	JUMPER LEAD	JL3 100 H	1	3J100606H
JL7503A	WIRE HOL	NSCT-3P894	1	25051107
JL7503B	WIRE HOL	NSCT-3P894	1	25051107
JL7540	JUMPER LEAD	JL9 200 H	1	9J200606H
JL7540A	WIRE HOL	NSCT-9P900	1	25051113
JL7540B	SOCKET	NSCT-9P101	1	25050273
JL7542	JUMPER LEAD	JL5 450 H	1	5J450606H
JL7542B	WIRE HOL	NSCT-5P896	1	25051109
JL957	JUMPER LEAD	JL5 350 H	1	5J350606H
JL957A	WIRE HOL	NSCT-5P896	1	25051109
P7534B	SOCKET	NSCT-40P2274	1	25052377
P7601	ST JACK	YKB21-5144	1	25045853
P7602	JACK	YKB26-5153	1	25045385
P7603	WS CLAMP	CB-71683(L=50)	1	260261
P7631	PIN JACK	NPJ-7PDB632	1	25045854
S7501	PUSH SW	NPS-111-S681	1	25035718T
S7501 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7502	PUSH SW	NPS-111-S681	1	25035718T

S7502 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7503	PUSH SW	NPS-111-S681	1	25035718T
S7503 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7504	PUSH SW	NPS-111-S681	1	25035718T
S7504 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7505	PUSH SW	NPS-111-S681	1	25035718T
S7505 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7507	PUSH SW	NPS-111-S681	1	25035718T
S7507 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7508	PUSH SW	NPS-111-S681	1	25035718T
S7508 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7509	PUSH SW	NPS-111-S681	1	25035718T
S7509 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7510	PUSH SW	NPS-111-S681	1	25035718T
S7510 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7511	PUSH SW	NPS-111-S681	1	25035718T
S7511 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7512	PUSH SW	NPS-111-S681	1	25035718T
S7512 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7513	PUSH SW	NPS-111-S681	1	25035718T
S7513 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7514	PUSH SW	NPS-111-S681	1	25035718T
S7514 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7515	PUSH SW	NPS-111-S681	1	25035718T
S7515 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7516	PUSH SW	NPS-111-S681	1	25035718T
S7516 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7517	PUSH SW	NPS-111-S681	1	25035718T
S7517 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7518	PUSH SW	NPS-111-S681	1	25035718T
S7518 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7519	PUSH SW	NPS-111-S681	1	25035718T
S7519 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7520	PUSH SW	NPS-111-S681	1	25035718T
S7520 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7521	PUSH SW	NPS-111-S681	1	25035718T
S7521 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7522	PUSH SW	NPS-111-S681	1	25035718T
S7522 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7523	PUSH SW	NPS-111-S681	1	25035718T
S7523 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7524	PUSH SW	NPS-111-S681	1	25035718T
S7524 or	PUSH SW	NPS-111-S677	(1)	25035714T
S7525	PUSH SW	NPS-111-S681	1	25035718T
S7525 or	PUSH SW	NPS-111-S677	(1)	25035714T

S7526	PUSH SW	NPS-111-S681	1	25035718T	
S7526 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7527	PUSH SW	NPS-111-S681	1	25035718T	
S7527 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7528	PUSH SW	NPS-111-S681	1	25035718T	
S7528 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7530	PUSH SW	NPS-111-S681	1	25035718T	
S7530 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7531	PUSH SW	NPS-111-S681	1	25035718T	
S7531 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7532	PUSH SW	NPS-111-S681	1	25035718T	
S7532 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7533	PUSH SW	NPS-111-S681	1	25035718T	
S7533 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7534	PUSH SW	NPS-111-S681	1	25035718T	
S7534 or	PUSH SW	NPS-111-S677	(1)	25035714T	
S7591	R ENCODE	EC12E24C25	1	25065628	
E7501	RETAINER	MET37-0002	1	27142009T	
E7621	TRM	NTM-1P233(M1969)	1	25060302	

U04 **AMPLIFIER PC BOARD (NAAF-8678-2H)**
U05 **THERMAL DETECTOR PC BOARD (NAETC-8680-2H)**
U07 **SURROUND BACK AMPLIFIER PC BOARD (NAAF-8682-2H)**

CIRCUIT NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
Q3001	IC	NE5532APSR	1	22242283R2	
Q3002	IC	NJU7311AM	1	22242209R2	
Q3003	IC	NJW1157B	1	22242193R3	
Q3004	IC	NE5532APSR	1	22242283R2	
Q3005	IC	78L07(SMT)	1	222780073R2	
Q3005 or	IC	NJM78L07UA	(1)	222780073R2JR	
Q3005 or	IC	TA78L07F	(1)	222780073R2TO	
Q3006	IC	79L07(SMT)	1	222790073R2	
Q3007	IC	NE5532APSR	1	22242283R2	
Q3009	IC	BD3814FV	1	22242157R2	
Q3200	TR	RN1443	1	2215510R2	
Q3201	TR	RN1443	1	2215510R2	
Q3202	TR	RN1443	1	2215510R2	
Q3203	TR	RN1443	1	2215510R2	
Q3204	TR	RN1443	1	2215510R2	
Q3205	TR	RN1443	1	2215510R2	
Q3206	TR	RN1443	1	2215510R2	
Q3207	TR	RN1443	1	2215510R2	
Q3210	TR	RN1443	1	2215510R2	
Q3211	TR	RN1443	1	2215510R2	

Q3212	TR	RN1443	1	2215510R2
Q3213	TR	RN1443	1	2215510R2
Q3214	TR	RN1443	1	2215510R2
Q3215	TR	RN1443	1	2215510R2
Q3216	TR	RN1443	1	2215510R2
Q3217	TR	RN1443	1	2215510R2
Q3251	TR	KRC102S	1	2216190R2
Q3251 or	TR	RN1402	(1)	2214470R2
Q3252	TR	KRC102S	1	2216190R2
Q3252 or	TR	RN1402	(1)	2214470R2
Q3401	TR	RN1443	1	2215510R2
Q3402	TR	RN1443	1	2215510R2
Q3403	TR	RN1443	1	2215510R2
Q3404	TR	RN1443	1	2215510R2
Q3405	TR	RN1443	1	2215510R2
Q3406	TR	RN1443	1	2215510R2
Q3505A	HEAT SINK	RAD-165	1	27160500
Q3505E	TAPE	TAPE(CLOTH-8U)	1	29110082
Q3507	IC	7812HF(TA7812S)	1	222780124TOS
Q3507 or	IC	7812	(1)	222780124
Q3507 or	IC	7812PI(S7812PI)	(1)	222780124AUK
Q3507B	SCREW	3P+10FN(3BC)	1	82143010GR
Q3508	IC	79012HF(TA79012S)	1	222790124TOS
Q3508 or	IC	7912FA(NJM7912FA)	(1)	222790124JRC
Q3508 or	IC	7912PI(S7912PI)	(1)	222790124AUK
Q3508B	SCREW	3P+10FN(3BC)	1	82143010GR
Q6000	TR	2SC1740S-S	1	2213285T
Q6001	TR	2SC1740S-S	1	2213285T
Q6002	TR	2SC1740S-S	1	2213285T
Q6003	TR	2SC1740S-S	1	2213285T
Q6004	TR	2SC1740S-S	1	2213285T
Q6005	TR	2SC1740S-S	1	2213285T
Q6006	TR	2SC1740S-S	1	2213285T
Q6010	TR	2SC1740S-S	1	2213285T
Q6011	TR	2SC1740S-S	1	2213285T
Q6012	TR	2SC1740S-S	1	2213285T
Q6013	TR	2SC1740S-S	1	2213285T
Q6014	TR	2SC1740S-S	1	2213285T
Q6015	TR	2SC1740S-S	1	2213285T
Q6016	TR	2SC1740S-S	1	2213285T
Q6030	TR	2SC5171(ONK_Q)	1	2203010
Q6030 or	TR	2SC5993-Q_P	(1)	2217161
Q6031	TR	2SC5171(ONK_Q)	1	2203010
Q6031 or	TR	2SC5993-Q_P	(1)	2217161
Q6032	TR	2SC5171(ONK_Q)	1	2203010

Q6032 or	TR	2SC5993-Q_P	(1)	2217161
Q6033	TR	2SC5171(ONK_Q)	1	2203010
Q6033 or	TR	2SC5993-Q_P	(1)	2217161
Q6034	TR	2SC5171(ONK_Q)	1	2203010
Q6034 or	TR	2SC5993-Q_P	(1)	2217161
Q6035	TR	2SC5171(ONK_Q)	1	2203010
Q6035 or	TR	2SC5993-Q_P	(1)	2217161
Q6036	TR	2SC5171(ONK_Q)	1	2203010
Q6036 or	TR	2SC5993-Q_P	(1)	2217161
Q6040	TR	2SA1930(ONK_Q)	1	2203000
Q6040 or	TR	2SA2140-Q_P	(1)	2217151
Q6041	TR	2SA1930(ONK_Q)	1	2203000
Q6041 or	TR	2SA2140-Q_P	(1)	2217151
Q6042	TR	2SA1930(ONK_Q)	1	2203000
Q6042 or	TR	2SA2140-Q_P	(1)	2217151
Q6043	TR	2SA1930(ONK_Q)	1	2203000
Q6043 or	TR	2SA2140-Q_P	(1)	2217151
Q6044	TR	2SA1930(ONK_Q)	1	2203000
Q6044 or	TR	2SA2140-Q_P	(1)	2217151
Q6045	TR	2SA1930(ONK_Q)	1	2203000
Q6045 or	TR	2SA2140-Q_P	(1)	2217151
Q6046	TR	2SA1930(ONK_Q)	1	2203000
Q6046 or	TR	2SA2140-Q_P	(1)	2217151
Q6070	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6070 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6071	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6071 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6072	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6072 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6073	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6073 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6074	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6074 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6075	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6075 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6076	TR	2SC2229-Y(TPE6_F)	1	2211634T
Q6076 or	TR	2SC2229-O(TPE6_F)	(1)	2211633T
Q6380	IC	LM61CIZ	1	22242212
Q6701	TR	KTC3875-GR	1	2216175R2
Q6701 or	TR	2SC2712-GR	(1)	2213145R2
Q6702	TR	KTC3875-GR	1	2216175R2
Q6702 or	TR	2SC2712-GR	(1)	2213145R2
Q6703	TR	2SA1163-BL(TE85L_F)	1	2216756R2
Q6704	TR	KTA1504-GR	1	2216185R2
Q6704 or	TR	2SA1162-GR	(1)	2214375R2

Q6707	TR	KTC3875-GR	1	2216175R2
Q6707 or	TR	2SC2712-GR	(1)	2213145R2
D3005	C-DIODE	KDS4148U	1	223283R2
D3005 or	C-DIODE	1SS352	(1)	223234R2
D3005 or	C-DIODE	1SS355	(1)	223269R2
D3005 or	C-DIODE	MA2J111	(1)	223279R2
D3006	C-DIODE	KDS4148U	1	223283R2
D3006 or	C-DIODE	1SS352	(1)	223234R2
D3006 or	C-DIODE	1SS355	(1)	223269R2
D3006 or	C-DIODE	MA2J111	(1)	223279R2
D3201	C-DIODE	KDS4148U	1	223283R2
D3201 or	C-DIODE	1SS352	(1)	223234R2
D3201 or	C-DIODE	1SS355	(1)	223269R2
D3201 or	C-DIODE	MA2J111	(1)	223279R2
D3202	C-DIODE	KDS4148U	1	223283R2
D3202 or	C-DIODE	1SS352	(1)	223234R2
D3202 or	C-DIODE	1SS355	(1)	223269R2
D3202 or	C-DIODE	MA2J111	(1)	223279R2
D3938	C-DIODE	KDS4148U	1	223283R2
D3938 or	C-DIODE	1SS352	(1)	223234R2
D3938 or	C-DIODE	1SS355	(1)	223269R2
D3938 or	C-DIODE	MA2J111	(1)	223279R2
D3939	C-DIODE	KDS4148U	1	223283R2
D3939 or	C-DIODE	1SS352	(1)	223234R2
D3939 or	C-DIODE	1SS355	(1)	223269R2
D3939 or	C-DIODE	MA2J111	(1)	223279R2
D3940	C-DIODE	KDS4148U	1	223283R2
D3940 or	C-DIODE	1SS352	(1)	223234R2
D3940 or	C-DIODE	1SS355	(1)	223269R2
D3940 or	C-DIODE	MA2J111	(1)	223279R2
D3941	C-DIODE	KDS4148U	1	223283R2
D3941 or	C-DIODE	1SS352	(1)	223234R2
D3941 or	C-DIODE	1SS355	(1)	223269R2
D3941 or	C-DIODE	MA2J111	(1)	223279R2
D6000	DIODE	1SS133(DS)	1	223280T
D6000 or	DIODE	1SS133	(1)	223163T
D6001	DIODE	1SS133(DS)	1	223280T
D6001 or	DIODE	1SS133	(1)	223163T
D6002	DIODE	1SS133(DS)	1	223280T
D6002 or	DIODE	1SS133	(1)	223163T
D6003	DIODE	1SS133(DS)	1	223280T
D6003 or	DIODE	1SS133	(1)	223163T
D6004	DIODE	1SS133(DS)	1	223280T
D6004 or	DIODE	1SS133	(1)	223163T
D6005	DIODE	1SS133(DS)	1	223280T

D6005 or	DIODE	1SS133	(1)	223163T
D6006	DIODE	1SS133(DS)	1	223280T
D6006 or	DIODE	1SS133	(1)	223163T
D6010	DIODE	1SS133(DS)	1	223280T
D6010 or	DIODE	1SS133	(1)	223163T
D6011	DIODE	1SS133(DS)	1	223280T
D6011 or	DIODE	1SS133	(1)	223163T
D6012	DIODE	1SS133(DS)	1	223280T
D6012 or	DIODE	1SS133	(1)	223163T
D6013	DIODE	1SS133(DS)	1	223280T
D6013 or	DIODE	1SS133	(1)	223163T
D6014	DIODE	1SS133(DS)	1	223280T
D6014 or	DIODE	1SS133	(1)	223163T
D6015	DIODE	1SS133(DS)	1	223280T
D6015 or	DIODE	1SS133	(1)	223163T
D6016	DIODE	1SS133(DS)	1	223280T
D6016 or	DIODE	1SS133	(1)	223163T
D6701	C-DIODE	KDS4148U	1	223283R2
D6701 or	C-DIODE	1SS352	(1)	223234R2
D6701 or	C-DIODE	1SS355	(1)	223269R2
D6701 or	C-DIODE	MA2J111	(1)	223279R2
D6702	C-DIODE	KDS4148U	1	223283R2
D6702 or	C-DIODE	1SS352	(1)	223234R2
D6702 or	C-DIODE	1SS355	(1)	223269R2
D6702 or	C-DIODE	MA2J111	(1)	223279R2
D6703	ZENER D	UDZS5.1B	1	224550510R2
D6703 or	ZENER D	MAZ8051	(1)	224750510R2
D6704	ZENER D	UDZS5.1B	1	224550510R2
D6704 or	ZENER D	MAZ8051	(1)	224750510R2
D6901	DIODE	D10XB60H	1	22380337
D6901A	HEAT SINK	RAD-164	1	27160499
D6901B	SCREW	3P+10FN(3BC)	1	82143010GR
D6901C	TAPE	TAPE(CLOTH-8U)	1	29110082
D6902	C-DIODE	KDS4148U	1	223283R2
D6902 or	C-DIODE	1SS352	(1)	223234R2
D6902 or	C-DIODE	1SS355	(1)	223269R2
D6902 or	C-DIODE	MA2J111	(1)	223279R2
D6903	DIODE	D10XB60H	1	22380337
D6903B	SCREW	3P+10FN(3BC)	1	82143010GR
C3001	TF C	ECQ-B50V-221K	1	374722215T
C3002	TF C	ECQ-B50V-221K	1	374722215T
C3005	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3006	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3007	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3008	C-CERA C	CC725CH1H-221J1	1	342102214R1

C3011	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3012	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3015	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3016	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3017	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3018	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3019	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3020	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3021	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3022	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3023	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3024	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3027	TF C	ECQ-B50V-102J	1	374721024T
C3028	TF C	ECQ-B50V-102J	1	374721024T
C3029	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3030	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3031	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3032	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3033	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3034	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3035	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3036	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3037	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C3038	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C3041	TF C	ECQ-B50V-123J	1	374721234T
C3042	TF C	ECQ-B50V-123J	1	374721234T
C3043	TF C	ECQ-B50V-392J	1	374723924T
C3044	TF C	ECQ-B50V-392J	1	374723924T
C3045	ELECT C	CE04W50V-10M(S)	1	353781009T
C3046	ELECT C	CE04W50V-10M(S)	1	353781009T
C3047	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3048	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3049	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3050	C-CERA C	CC725CH1H-101J1	1	342101014R1
C3051	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3052	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3053	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3054	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3055	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3057	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3058	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3059	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3060	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3061	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3062	UTSP C	CE04W50V-10M(UTSP)	1	397581007T

C3063	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3064	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3065	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3066	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3067	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3068	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3069	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3070	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3071	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3072	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3077	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3078	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3079	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3080	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3081	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3082	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3083	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3084	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3085	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3086	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3087	UTSP C	CE04W50V-1M(UTSP)	1	397580107T
C3088	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T
C3089	TF C	ECQ-V50V-224J	1	374722244T
C3090	TF C	ECQ-B50V-472J	1	374724724T
C3091	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T
C3092	TF C	ECQ-V50V-224J	1	374722244T
C3093	TF C	ECQ-B50V-472J	1	374724724T
C3096	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
C3097	UTSP C	CE04W16V-470M(UTSP)	1	397544717T
C3098	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3099	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3100	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C3101	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C3103	C-CERA C	CC725CH1H-330J1	1	342103304R1
C3104	C-CERA C	CC725CH1H-330J1	1	342103304R1
C3105	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3106	C-CERA C	CC725CH1H-221J1	1	342102214R1
C3107	C-CERA C	CK725B1H-103K1	1	332101035R1
C3108	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3109	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C3110	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C3111	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3113	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3114	C-CERA C	CC725CH1H-102J1	1	342101024R1
C3115	UTSP C	CE04W10V-220M(UTSP)	1	397532217T

C3116	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C3121	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3122	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3123	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3124	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3132	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3133	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3134	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3135	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3136	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3137	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3200	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3201	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3202	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3203	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3204	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3205	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3206	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C3401	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3402	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3403	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3404	UTSP C	CE04W25V-47M(UTSP)	1	397554707T
C3405	TF C	ECQ-V50V-104J	1	374721044T
C3406	TF C	ECQ-V50V-104J	1	374721044T
C3407	TF C	ECQ-V50V-104J	1	374721044T
C3408	TF C	ECQ-V50V-104J	1	374721044T
C3409	TF C	ECQ-B50V-472J	1	374724724T
C3410	TF C	ECQ-B50V-472J	1	374724724T
C3411	UTSP C	CE04W50V-22M(UTSP)	1	397582207T
C3412	UTSP C	CE04W50V-22M(UTSP)	1	397582207T
C3415	C-CERA C	CK725B1H-103K1	1	332101035R1
C3416	C-CERA C	CK725B1H-103K1	1	332101035R1
C3417	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T
C3939	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3940	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3941	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3942	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3943	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3944	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C3945	UTSP C	CE04W10V-100M(UTSP)	1	397531017T
C3946	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C6020	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6021	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6022	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6023	UTSP C	CE04W50V 47M(UTSP)	1	397584707T

C6024	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6025	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6026	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C6030	TF C	ECQ-V100-473J	1	374734734T
C6031	TF C	ECQ-V100-473J	1	374734734T
C6032	TF C	ECQ-V100-473J	1	374734734T
C6033	TF C	ECQ-V100-473J	1	374734734T
C6034	TF C	ECQ-V100-473J	1	374734734T
C6035	TF C	ECQ-V100-473J	1	374734734T
C6036	TF C	ECQ-V100-473J	1	374734734T
C6701	VR C	CE04W16V-220M(VR)	1	394642217T
C6703	C-CERA C	CK725F1H-223Z1	1	332152230R1
C6704	VR C	CE04W50V-1M(VR)	1	394680107T
C6705	C-CERA C	CK725F1H-223Z1	1	332152230R1
C6706	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C6901	ELECT C	CE69W71V-15000M	1	3504434
C6901A	TAPE	TAPE(CLOTH-16U)	1	29110083
C6902	ELECT C	CE69W71V-15000M	1	3504434
C6902A	TAPE	TAPE(CLOTH-16U)	1	29110083
C6911	C-CERA C	CC725CH1H-102J1	1	342101024R1
C6912	TF C	ECQ-V100-334J	1	374733344T
C6913	TF C	ECQ-V100-334J	1	374733344T
C6915	TF C	ECQ-V50V-334J	1	374723344T
C6916	TF C	ECQ-V50V-334J	1	374723344T
C6919	TF C	ECQ-B50V-102J	1	374721024T
R3001	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3002	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3005	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3006	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3007	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3008	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3009	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3010	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3013	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3014	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3017	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3018	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3019	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3020	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3021	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3022	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3025	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3026	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3027	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3028	C-CARBON R	RN72K1J-563JE	1	435035634R1

R3029	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3030	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3033	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3034	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3037	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3038	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3039	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3040	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3041	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3042	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3043	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3044	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3045	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3046	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3047	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3048	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3053	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3054	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3057	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3058	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3059	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3060	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3061	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3062	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3063	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3064	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3065	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3066	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3067	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3068	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3069	C-CARBON R	RN72K1J-474JE	1	435034744R1
R3070	C-CARBON R	RN72K1J-474JE	1	435034744R1
R3071	C-CARBON R	RN72K1J-561JE	1	435035614R1
R3072	C-CARBON R	RN72K1J-561JE	1	435035614R1
R3073	C-CARBON R	RN72K1J-274JE	1	435032744R1
R3074	C-CARBON R	RN72K1J-274JE	1	435032744R1
R3075	C-CARBON R	RN72K1J-223JE	1	435032234R1
R3076	C-CARBON R	RN72K1J-223JE	1	435032234R1
R3077	C-CARBON R	RN72K1J-122JE	1	435031224R1
R3078	C-CARBON R	RN72K1J-122JE	1	435031224R1
R3079	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3080	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3081	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3082	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3083	C-CARBON R	RN72K1J-221JE	1	435032214R1

R3084	C-CARBON R	RN72K1J-221JE	1	435032214R1
R3085	C-CARBON R	RN72K1J-221JE	1	435032214R1
R3086	C-CARBON R	RN72K1J-221JE	1	435032214R1
R3087	C-CARBON R	RN72K1J-221JE	1	435032214R1
R3088	C-CARBON R	RN72K1J-221JE	1	435032214R1
R3089	C-CARBON R	RN72K1J-220JE	1	435032204R1
R3090	C-CARBON R	RN72K1J-220JE	1	435032204R1
R3091	C-CARBON R	RN72K1J-122JE	1	435031224R1
R3092	C-CARBON R	RN72K1J-122JE	1	435031224R1
R3093	C-CARBON R	RN72K1J-471JE	1	435034714R1
R3094	C-CARBON R	RN72K1J-471JE	1	435034714R1
R3095	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3096	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3097	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3098	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3099	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3100	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3101	C-CARBON R	RN72K1J-220JE	1	435032204R1
R3102	C-CARBON R	RN72K1J-220JE	1	435032204R1
R3103	C-CARBON R	RN72K1J-473JE	1	435034734R1
R3104	C-CARBON R	RN72K1J-122JE	1	435031224R1
R3105	C-CARBON R	RN72K1J-153JE	1	435031534R1
R3106	C-CARBON R	RN72K1J-103JE	1	435031034R1
R3112	C-CARBON R	RN72K1J-000JE	1	435030004R1
R3113	C-CARBON R	RN72K1J-000JE	1	435030004R1
R3114	C-CARBON R	RN72K1J-000JE	1	435030004R1
R3117	METAL O R	RS1/2WBJ-22	1	443522204T
R3118	METAL O R	RS1/2WBJ-22	1	443522204T
R3119	C-CARBON R	RN72K1J-104JE	1	435031044R1
R3120	C-CARBON R	RN72K1J-104JE	1	435031044R1
R3121	C-CARBON R	RN72K1J-104JE	1	435031044R1
R3123	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3124	C-CARBON R	RN72K1J-331JE	1	435033314R1
R3125	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3126	C-CARBON R	RN72K1J-563JE	1	435035634R1
R3127	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3128	C-CARBON R	RN72K1J-100JE	1	435031004R1
R3129	C-CARBON R	RN72K1J-000JE	1	435030004R1
R3130	C-CARBON R	RN72K1J-000JE	1	435030004R1
R3210	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3211	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3212	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3213	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3214	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3215	C-CARBON R	RN72K1J-224JE	1	435032244R1

R3216	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3217	C-CARBON R	RN72K1J-224JE	1	435032244R1
R3220	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3221	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3222	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3223	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3224	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3225	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3226	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3227	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3230	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3231	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3232	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3233	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3234	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3235	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3236	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3237	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3251	METAL O R	RS1WBJ-120	1	443621214T
R3252	METAL O R	RS1WBJ-120	1	443621214T
R3401	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3402	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3403	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3404	C-CARBON R	RN72K1J-472JE	1	435034724R1
R3405	C-CARBON R	RN72K1J-472JE	1	435034724R1
R3407	C-CARBON R	RN72K1J-223JE	1	435032234R1
R3408	C-CARBON R	RN72K1J-223JE	1	435032234R1
R3409	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3410	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3411	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3412	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3417	C-CARBON R	RN72K1J-472JE	1	435034724R1
R3418	C-CARBON R	RN72K1J-472JE	1	435034724R1
R3419	C-CARBON R	RN72K1J-473JE	1	435034734R1
R3420	C-CARBON R	RN72K1J-472JE	1	435034724R1
R3421	C-CARBON R	RN72K1J-271JE	1	435032714R1
R3422	C-CARBON R	RN72K1J-101JE	1	435031014R1
R3423	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6010	CARBON R	R16J-5.6K	1	417345624T
R6011	CARBON R	R16J-5.6K	1	417345624T
R6012	CARBON R	R16J-5.6K	1	417345624T
R6013	CARBON R	R16J-5.6K	1	417345624T
R6014	CARBON R	R16J-5.6K	1	417345624T
R6015	CARBON R	R16J-5.6K	1	417345624T
R6016	CARBON R	R16J-5.6K	1	417345624T

R6020	CARBON R	R16J-3.9K	1	417343924T
R6021	CARBON R	R16J-3.9K	1	417343924T
R6022	CARBON R	R16J-3.9K	1	417343924T
R6023	CARBON R	R16J-3.9K	1	417343924T
R6024	CARBON R	R16J-3.9K	1	417343924T
R6025	CARBON R	R16J-3.9K	1	417343924T
R6026	CARBON R	R16J-3.9K	1	417343924T
R6030	CARBON R	R16J-470	1	417344714T
R6031	CARBON R	R16J-470	1	417344714T
R6032	CARBON R	R16J-470	1	417344714T
R6033	CARBON R	R16J-470	1	417344714T
R6034	CARBON R	R16J-470	1	417344714T
R6035	CARBON R	R16J-470	1	417344714T
R6036	CARBON R	R16J-470	1	417344714T
R6040	TRIM R	N06HR2KBC	1	5210390T
R6041	TRIM R	N06HR2KBC	1	5210390T
R6042	TRIM R	N06HR2KBC	1	5210390T
R6043	TRIM R	N06HR2KBC	1	5210390T
R6044	TRIM R	N06HR2KBC	1	5210390T
R6045	TRIM R	N06HR2KBC	1	5210390T
R6046	TRIM R	N06HR2KBC	1	5210390T
R6050	CARBON R	R16J-3.3K	1	417343324T
R6051	CARBON R	R16J-3.3K	1	417343324T
R6052	CARBON R	R16J-3.3K	1	417343324T
R6053	CARBON R	R16J-3.3K	1	417343324T
R6054	CARBON R	R16J-3.3K	1	417343324T
R6055	CARBON R	R16J-3.3K	1	417343324T
R6056	CARBON R	R16J-3.3K	1	417343324T
R6070	NF CARBON R	R25J-82	1	415478204T
R6071	NF CARBON R	R25J-82	1	415478204T
R6072	NF CARBON R	R25J-82	1	415478204T
R6073	NF CARBON R	R25J-150	1	415471514T
R6074	NF CARBON R	R25J-150	1	415471514T
R6075	NF CARBON R	R25J-220	1	415472214T
R6076	NF CARBON R	R25J-220	1	415472214T
R6080	NF CARBON R	R25J-0.22	1	415472294T
R6081	NF CARBON R	R25J-0.22	1	415472294T
R6082	NF CARBON R	R25J-0.22	1	415472294T
R6083	NF CARBON R	R25J-0.22	1	415472294T
R6084	NF CARBON R	R25J-0.22	1	415472294T
R6085	NF CARBON R	R25J-0.22	1	415472294T
R6086	NF CARBON R	R25J-0.22	1	415472294T
R6090	NF CARBON R	R25J-0.22	1	415472294T
R6091	NF CARBON R	R25J-0.22	1	415472294T
R6092	NF CARBON R	R25J-0.22	1	415472294T

R6093	NF CARBON R	R25J-0.22	1	415472294T
R6094	NF CARBON R	R25J-0.22	1	415472294T
R6095	NF CARBON R	R25J-0.22	1	415472294T
R6096	NF CARBON R	R25J-0.22	1	415472294T
R6100	METAL PR	MPR5W+5W 0R22	1	4000233
R6100 or	METAL PR	RF-5EGKR22	(1)	4000201
R6100 or	METAL PR	RGC55 0.22	(1)	4000132
R6101	METAL PR	MPR5W+5W 0R22	1	4000233
R6101 or	METAL PR	RF-5EGKR22	(1)	4000201
R6101 or	METAL PR	RGC55 0.22	(1)	4000132
R6102	METAL PR	MPR5W+5W 0R22	1	4000233
R6102 or	METAL PR	RF-5EGKR22	(1)	4000201
R6102 or	METAL PR	RGC55 0.22	(1)	4000132
R6103	METAL PR	MPR5W+5W 0R22	1	4000233
R6103 or	METAL PR	RF-5EGKR22	(1)	4000201
R6103 or	METAL PR	RGC55 0.22	(1)	4000132
R6104	METAL PR	MPR5W+5W 0R22	1	4000233
R6104 or	METAL PR	RF-5EGKR22	(1)	4000201
R6104 or	METAL PR	RGC55 0.22	(1)	4000132
R6105	METAL PR	MPR5W+5W 0R22	1	4000233
R6105 or	METAL PR	RF-5EGKR22	(1)	4000201
R6105 or	METAL PR	RGC55 0.22	(1)	4000132
R6106	METAL PR	MPR5W+5W 0R22	1	4000233
R6106 or	METAL PR	RF-5EGKR22	(1)	4000201
R6106 or	METAL PR	RGC55 0.22	(1)	4000132
R6120	NF CARBON R	R25J-2.2	1	415470224T
R6121	NF CARBON R	R25J-2.2	1	415470224T
R6122	NF CARBON R	R25J-2.2	1	415470224T
R6123	NF CARBON R	R25J-2.2	1	415470224T
R6124	NF CARBON R	R25J-2.2	1	415470224T
R6125	NF CARBON R	R25J-2.2	1	415470224T
R6126	NF CARBON R	R25J-2.2	1	415470224T
R6130	METAL R	RNU1WCJ-8.2	1	453630824T
R6131	METAL R	RNU1WCJ-8.2	1	453630824T
R6132	METAL R	RNU1WCJ-8.2	1	453630824T
R6133	METAL R	RNU1WCJ-8.2	1	453630824T
R6134	METAL R	RNU1WCJ-8.2	1	453630824T
R6135	METAL R	RNU1WCJ-8.2	1	453630824T
R6136	METAL R	RNU1WCJ-8.2	1	453630824T
R6140	CARBON R	R16J-22K	1	417342234T
R6141	CARBON R	R16J-22K	1	417342234T
R6142	CARBON R	R16J-22K	1	417342234T
R6143	CARBON R	R16J-22K	1	417342234T
R6144	CARBON R	R16J-22K	1	417342234T
R6145	CARBON R	R16J-22K	1	417342234T

R6146	CARBON R	R16J-22K	1	417342234T
R6150	CARBON R	R16J-12K	1	417341234T
R6151	CARBON R	R16J-12K	1	417341234T
R6152	CARBON R	R16J-12K	1	417341234T
R6153	CARBON R	R16J-12K	1	417341234T
R6154	CARBON R	R16J-12K	1	417341234T
R6155	CARBON R	R16J-12K	1	417341234T
R6156	CARBON R	R16J-12K	1	417341234T
R6160	CARBON R	R16J-33K	1	417343334T
R6161	CARBON R	R16J-33K	1	417343334T
R6162	CARBON R	R16J-33K	1	417343334T
R6163	CARBON R	R16J-33K	1	417343334T
R6164	CARBON R	R16J-33K	1	417343334T
R6165	CARBON R	R16J-33K	1	417343334T
R6166	CARBON R	R16J-33K	1	417343334T
R6180	METAL O R	RS1/2WBJ-390	1	443523914T
R6181	METAL O R	RS1/2WBJ-390	1	443523914T
R6190	CARBON R	R16J-47K	1	417344734T
R6191	CARBON R	R16J-47K	1	417344734T
R6192	CARBON R	R16J-47K	1	417344734T
R6193	CARBON R	R16J-47K	1	417344734T
R6194	CARBON R	R16J-47K	1	417344734T
R6195	CARBON R	R16J-47K	1	417344734T
R6196	CARBON R	R16J-47K	1	417344734T
R6197	METAL R	RNU1/2WCJ-0.22	1	453532294T
R6210	CARBON R	R16J-47K	1	417344734T
R6211	CARBON R	R16J-47K	1	417344734T
R6212	CARBON R	R16J-47K	1	417344734T
R6213	CARBON R	R16J-47K	1	417344734T
R6214	CARBON R	R16J-47K	1	417344734T
R6215	CARBON R	R16J-47K	1	417344734T
R6216	CARBON R	R16J-47K	1	417344734T
R6240	CARBON R	R16J-220K	1	417342244T
R6241	CARBON R	R16J-220K	1	417342244T
R6242	CARBON R	R16J-220K	1	417342244T
R6243	CARBON R	R16J-220K	1	417342244T
R6244	CARBON R	R16J-220K	1	417342244T
R6245	CARBON R	R16J-220K	1	417342244T
R6246	CARBON R	R16J-220K	1	417342244T
R6701	C-CARBON R	RN72K1J-223JE	1	435032234R1
R6702	C-CARBON R	RN72K1J-103JE	1	435031034R1
R6704	C-CARBON R	RN72K1J-473JE	1	435034734R1
R6705	C-CARBON R	RN72K1J-183JE	1	435031834R1
R6706	C-CARBON R	RN72K1J-224JE	1	435032244R1
R6707	C-CARBON R	RN72K1J-103JE	1	435031034R1

R6708	C-CARBON R	RN72K1J-333JE	1	435033334R1
R6709	C-CARBON R	RN72K1J-562JE	1	435035624R1
R6710	C-CARBON R	RN72K1J-183JE	1	435031834R1
R6902	C-CARBON R	RN72K1J-102JE	1	435031024R1
R6903	C-CARBON R	RN72K1J-473JE	1	435034734R1
F6901A	FUSE HOLDER	SN5051	1	250113
F6901B	FUSE HOLDER	SN5051	1	250113
F6902A	FUSE HOLDER	SN5051	1	250113
F6902B	FUSE HOLDER	SN5051	1	250113
JL6006B	SOCKET	NSCT-5P97	1	25050269
JL6200A	WIRE HOL	NSCT-5P896	1	25051109
JL6200B	SOCKET	NSCT-5P97	1	25050269
JL6600A	WIRE HOL	NSCT-7P898	1	25051111
JL6603A	WIRE HOL	NSCT-9P900	1	25051113
JL703A	WIRE HOL	NSCT-3P874	1	25051087
P3001	PIN JACK	NPJ-2PDBL249	1	25045424
P3002	PIN JACK	NPJ-6PDRW394	1	25045583
P3003	PIN JACK	NPJ-6PDRW394	1	25045583
P3004	PIN JACK	NPJ-4PDRW393	1	25045582
P3005	PIN JACK	NPJ-6PDWRLEGP522	1	25045734
P3006	PIN JACK	NPJ-2PDNT523	1	25045735
P3008	PIN JACK	NPJ-6PDWRLEGP522	1	25045734
P3009	PIN JACK	NPJ-2PDNT523	1	25045735
P3010	TRM(SCREW)	NEJITANSI M3	1	25065425
P3101A	PLUG	NPLG-15P0970	1	25056020
P3102A	PLUG	NPLG-8P0963	1	25056013
P3103A	PLUG	NPLG-17P0972	1	25056022
P3104A	PLUG	NPLG-17P0972	1	25056022
P3105A	PLUG	NPLG-17P0972	1	25056022
P5003B	CRIMP AS	CRIMP AS	1	2069955150UL
P5004B	SOCKET AS	NSAS-26P1494	1	2009990954UL
P6000A	PLUG	NPLG-5P0960	1	25056010
P6001A	PLUG	NPLG-5P0960	1	25056010
P6002A	PLUG	NPLG-5P0960	1	25056010
P6003A	PLUG	NPLG-5P0960	1	25056010
P6004A	PLUG	NPLG-5P0960	1	25056010
P6005A	PLUG	NPLG-5P0960	1	25056010
P6080	PLUG	NPLG-2P29	1	25055038
P6081	PLUG	NPLG-2P29	1	25055038
P6082	PLUG	NPLG-2P29	1	25055038
P6083	PLUG	NPLG-2P29	1	25055038
P6084	PLUG	NPLG-2P29	1	25055038
P6085	PLUG	NPLG-2P29	1	25055038
P6086	PLUG	NPLG-2P29	1	25055038
P6380	RETAINER	(PTH)	1	27141884-1

P6380 or	RETAINER	(PTH)	(1)	27141884
P6800	WS CLAMP	CB-71683(L=50)	1	260261
P6901	CRIMP AS	CRIMP AS	1	2069925226UL
P6902	CRIMP AS	CRIMP AS	1	2069925153UL
P6911A	RETAINER	(BUS-D)	1	27141860
P6952A	PLUG	NPLG-10P157	1	25055173
P6991	TRM(SCREW)	NEJITANSI M3	1	25065425
RL3201	RELAY	NRL-2P2A-DC4.5-173	1	25065658
RL3201 or	RELAY	NPL-2P1A-DC4.5-169	(1)	25065645
RL3202	RELAY	NRL-2P2A-DC4.5-173	1	25065658
RL3202 or	RELAY	NPL-2P1A-DC4.5-169	(1)	25065645
RL6901	RELAY	NRL-1P10A-DC12-140	1	25065584
RL6901 or	RELAY	NRL-1P10A-DC12-143	(1)	25065588
RL6901A	TAPE	TAPE(CLOTH-16U)	1	29110083
RL6902	RELAY	NRL-1P10A-DC12-140	1	25065584
RL6902 or	RELAY	NRL-1P10A-DC12-143	(1)	25065588
RL6902A	TAPE	TAPE(CLOTH-16U)	1	29110083

U08 **HDMI PC BOARD (NAVD-8824-1A)**

REF. NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
Q8001	IC	SII504	1	22242049R3	
Q8002	IC	MC504	1	22242050R9	
Q8003	IC	IC42S32200L-7TG	1	22242056R2	
Q8003 or	IC	K4S643232H-UC60	(1)	22242169R3	
Q8007	IC	BA18BC0FP	1	22278018DR2RH	
Q8007 or	IC	MPC2918T	(1)	22278018ER2NE	
Q8007 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8101	IC	ADV7401	1	22242254R3	
Q8104	IC	TC74VCX162244FT(EL_F)	1	2227C244DR2TO	
Q8105	IC	TC74VCX162244FT(EL_F)	1	2227C244DR2TO	
Q8106	IC	BA18BC0FP	1	22278018DR2RH	
Q8106 or	IC	MPC2918T	(1)	22278018ER2NE	
Q8106 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO	
Q8191	IC	NJM2391DL1-33	1	22278033DR2JR	
Q8191 or	IC	BA33BC0FP	(1)	22278033DR2RH	
Q8191 or	IC	MPC2933T	(1)	22278033DR2NE	
Q8191 or	IC	TA48033AF(TE16L_NQ)	(1)	22278033DR2TO	
Q8305	IC	NJM2860F3-05	1	22242105R2	
Q8306	IC	TC7SZ08FU(TE85L_F)	1	22242071R2TO	
Q8308	TR	DTA144EE	1	2216380R2	
Q8309	TR ARRAY	UM6K1N	1	226066R2	
Q8309 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8401	IC	SII9030CTU-7	1	22242325R3	
Q8404	IC	XC6213B332MR	1	22242277R2	
Q8501	IC	SII9033	1	22242324R3	
Q8503	TR ARRAY	UM6K1N	1	226066R2	
Q8503 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8504	TR ARRAY	UM6K1N	1	226066R2	
Q8504 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8505	TR ARRAY	UM6K1N	1	226066R2	
Q8505 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8506	IC	BR24L02FV-W	1	22242069R2	
Q8506 or	IC	S-24CS02AFT-V-G	(1)	22242360R2	
Q8508	TR ARRAY	UM6K1N	1	226066R2	
Q8508 or	TR ARRAY	UPA672T	(1)	226067R2	
Q8509	TR	2SK3019	1	2216520R2	
Q8510	TR	DTA144EE	1	2216380R2	
Q8591	IC	NJM2391DL1-33	1	22278033DR2JR	
Q8591 or	IC	BA33BC0FP	(1)	22278033DR2RH	
Q8591 or	IC	MPC2933T	(1)	22278033DR2NE	
Q8591 or	IC	TA48033AF(TE16L_NQ)	(1)	22278033DR2TO	

Q8592	IC	BA18BC0FP	1	22278018DR2RH
Q8592 or	IC	MPC2918T	(1)	22278018ER2NE
Q8592 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO
Q8593	IC	SI8008TM	1	22242323R2
Q8595	IC	BA18BC0FP	1	22278018DR2RH
Q8595 or	IC	MPC2918T	(1)	22278018ER2NE
Q8595 or	IC	TA48018AF(TE16L_NQ)	(1)	22278018DR2TO
Q8602	IC	XC6213B332MR	1	22242277R2
Q8603	TR ARRAY	UM6K1N	1	226066R2
Q8603 or	TR ARRAY	UPA672T	(1)	226067R2
Q8604	TR ARRAY	UM6K1N	1	226066R2
Q8604 or	TR ARRAY	UPA672T	(1)	226067R2
Q8605	TR ARRAY	UM6K1N	1	226066R2
Q8605 or	TR ARRAY	UPA672T	(1)	226067R2
Q8606	IC	BR24L02FV-W	1	22242069R2
Q8606 or	IC	S-24CS02AFT-V-G	(1)	22242360R2
Q8610	TR	DTA144EE	1	2216380R2
Q8701	IC	MPD70F3716GC-8EA	1	222W0054R3
Q8801	IC	ADV7172	1	22242155R3
Q8858	TR	2SK3019	1	2216520R2
D8301	C-DIODE	1SS226(TE85L_F)	1	223266R2
D8301 or	DIODE	DAN217T146	(1)	223285R2
D8461	C-DIODE	1SS226(TE85L_F)	1	223266R2
D8461 or	DIODE	DAN217T146	(1)	223285R2
D8501	C-DIODE	1SS226(TE85L_F)	1	223266R2
D8501 or	DIODE	DAN217T146	(1)	223285R2
D8591	C-DIODE	CRS09(TE85L_Q)	1	223274R2
D8601	C-DIODE	1SS226(TE85L_F)	1	223266R2
D8601 or	DIODE	DAN217T146	(1)	223285R2
D8701	C-DIODE	KDS4148U	1	223283R2
D8701 or	C-DIODE	1SS352	(1)	223234R2
L8001	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8002	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8003	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8004	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8101	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8102	CHOKE COIL	LBC2518T470M	1	231364M470R2
L8103	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8104	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8105	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
L8107	EMIFIL	BK1608HS601-T	1	230984R1
L8401	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8402	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8403	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8404	CHOKE COIL	BLM21PG221SN1	1	230949R2

L8405	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8406	CORE	DLP2ADN900HL4L	1	230990R2
L8407	CORE	DLP2ADN900HL4L	1	230990R2
L8501	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8502	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8504	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8505	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8506	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8507	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8508	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8509	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8517	EMIFIL	BK1608LL241-T	1	230959R1
L8591	CHOKE COIL	BLM21PG221SN1	1	230949R2
L8592	CHOKE COIL	NCH-2541	1	231363K470
L8701	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
L8801	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
X8001	CRYSTAL	FCX03-20.000MHz	1	3010389R2
X8101	CRYSTAL	FCX-03-28.6363MHz	1	3010408R2
X8501	CRYSTAL	HC-49-28.332MHz	1	3010417R2
X8701	CERA LOCK	CSTCR5M00G53-B0	1	3010356R2
C8001	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8002	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8003	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8004	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8006	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8010	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8011	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8012	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8013	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8014	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8019	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8020	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8021	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8022	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8023	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8024	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8025	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8026	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8027	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8028	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8029	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8030	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8031	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8032	CHIP ELECT C	CEWX16V-22M	1	356742209R2
C8033	C-CERA C	CK725F1A-105Z1	1	332181050R1

C8034	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8035	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8036	C-CERA C	CC725CH1H-040C1	1	342100401R1
C8038	C-CERA C	CC725CH1H-040C1	1	342100401R1
C8040	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8041	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8042	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8043	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8044	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8045	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8046	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8047	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8048	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8049	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8050	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8051	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8052	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8053	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8054	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8055	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8056	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8077	CHIP ELECT C	CEWX16V-10M	1	356741009R2
C8079	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2
C8101	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2
C8102	C-CERA C	CK725B1C-104K1	1	332121045R1
C8103	C-CERA C	CK725B1C-104K1	1	332121045R1
C8104	C-CERA C	CK725B1C-104K1	1	332121045R1
C8105	C-CERA C	CK725B1C-104K1	1	332121045R1
C8106	C-CERA C	CK725B1C-104K1	1	332121045R1
C8107	C-CERA C	CK725B1C-104K1	1	332121045R1
C8108	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8109	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8110	CHIP ELECT C	CEWX16V-10M	1	356741009R2
C8111	CHIP ELECT C	CEWX16V-10M	1	356741009R2
C8112	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8113	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8114	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8115	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8116	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8117	CHIP ELECT C	CEWX16V-10M	1	356741009R2
C8118	CHIP ELECT C	CEWX16V-10M	1	356741009R2
C8119	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8120	C-CERA C	CC725CH1H-101J1	1	342101014R1
C8121	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8122	C-CERA C	CK725F1H-104Z1	1	332151040R1

C8123	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8124	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8125	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8126	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8127	C-CERA C	CK725B1H-223K1	1	332102235R1	
C8128	C-CERA C	CK725B1C-823K1	1	332128235R1	
C8129	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8130	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8131	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8133	C-CERA C	CC725CH1H-070D1	1	342100702R1	
C8134	C-CERA C	CC725CH1H-070D1	1	342100702R1	
C8135	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8136	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8137	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8138	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8139	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8140	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8141	CHIP ELECT C	CEWX16V-10M	1	356741009R2	
C8142	C-CERA C	CC725CH1H-100D1	1	342101002R1	
C8143	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8151	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8152	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8153	CHIP ELECT C	CEWX6.3V-100M	1	356721019R2	
C8154	CHIP ELECT C	CEWX6.3V-100M	1	356721019R2	
C8155	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C8156	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C8157	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C8191	C-CERA C	CK725F1H-104Z1	1	332151040R1	
C8192	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2	
C8326	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8327	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8328	CHIP ELECT C	CEWX16V-22M	1	356742209R2	
C8329	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8330	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8332	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8398	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C8399	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C8401	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2	
C8402	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2	
C8403	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8404	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C8405	C-CERA C	CK725F1A-105Z1	1	332181050R1	
C8406	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C8407	C-CERA C	CC725CH1H-102J1	1	342101024R1	
C8408	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2	

C8409	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8410	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8411	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8412	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8413	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8414	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8415	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8416	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8417	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8418	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8419	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8420	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8421	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8422	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8423	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8424	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8425	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8426	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8427	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8451	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8452	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8453	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8461	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8501	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8502	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8504	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8505	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8511	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8513	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8514	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8515	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8516	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8517	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8518	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8519	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8520	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8521	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8522	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8523	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8524	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8525	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8526	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8527	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8528	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8529	C-CERA C	CK725F1A-105Z1	1	332181050R1

C8530	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8531	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8532	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8533	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8534	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8535	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8536	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8537	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8538	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8539	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8540	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8541	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8542	C-CERA C	CC725CH1H-070D1	1	342100702R1
C8543	C-CERA C	CC725CH1H-070D1	1	342100702R1
C8544	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8545	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8546	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8547	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8548	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8549	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8550	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8551	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8552	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8553	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8554	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8555	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8556	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8558	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8559	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8560	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8561	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8562	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8581	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8585	CHIP ELECT C	CEWT16V-470M	1	395744717R2
C8586	C-CERA C	CK725F1H-223Z1	1	332152230R1
C8587	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8588	CHIP ELECT C	CEWT16V-470M	1	395744717R2
C8589	CHIP ELECT C	CEWX4V-22M	1	3567A2209R2
C8591	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8592	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2
C8593	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8594	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2
C8595	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8596	CHIP ELECT C	CEWX4V-100M	1	3567A1019R2
C8598	C-CERA C	CC725CH1H-102J1	1	342101024R1

C8599	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8622	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8623	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8624	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8681	C-CERA C	CK725F1E-104Z1	1	332161040R1
C8698	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8699	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8701	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8702	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8703	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8704	CHIP ELECT C	CEWX50V-4.7M	1	356780479R2
C8705	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8706	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8707	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8708	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8709	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8710	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8801	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8802	CHIP ELECT C	CEWX4V-220M	1	3567A2219R2
C8803	C-CERA C	CK725F1A-105Z1	1	332181050R1
C8804	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8805	C-CERA C	CC725CH1H-102J1	1	342101024R1
C8806	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8807	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8808	C-CERA C	CK725B1C-104K1	1	332121045R1
C8809	C-CERA C	CK725F1H-104Z1	1	332151040R1
C8901	C-CERA C	CK725B1A-105K1	1	332131055R1
C8902	C-CERA C	CK725B1A-105K1	1	332131055R1
C8903	C-CERA C	CK725B1A-105K1	1	332131055R1
C8904	C-CERA C	CK725B1A-105K1	1	332131055R1
C8905	C-CERA C	CK725B1A-105K1	1	332131055R1
C8906	C-CERA C	CK725B1A-105K1	1	332131055R1
C8911	CHIP ELECT C	CEWX6.3V-100M	1	356721019R2
C8912	CHIP ELECT C	CEWX6.3V-100M	1	356721019R2
R8001	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8002	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8003	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8004	C-R NET	RM7LJ100X04	1	43484710004R2
R8005	C-R NET	RM7LJ100X04	1	43484710004R2
R8006	C-R NET	RM7LJ100X04	1	43484710004R2
R8007	C-R NET	RM7LJ100X04	1	43484710004R2
R8008	C-R NET	RM7LJ100X04	1	43484710004R2
R8009	C-R NET	RM7LJ100X04	1	43484710004R2
R8010	C-R NET	RM7LJ100X04	1	43484710004R2
R8011	C-R NET	RM7LJ100X04	1	43484710004R2

R8013	EMIFIL	BK1608LL241-T	1	230959R1
R8018	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8019	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8024	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8025	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8026	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8027	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8028	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8029	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8034	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8035	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8036	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8037	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8038	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8041	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8045	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8047	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8050	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8051	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8053	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8055	C-CARBON R	RN72K1J-105JE	1	435031054R1
R8056	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8057	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8058	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8061	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8062	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8064	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8065	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8066	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8067	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8071	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8072	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8082	C-CARBON R	RN72K1J-105JE	1	435031054R1
R8088	C-CARBON R	RN72K1J-470JE	1	435034704R1
R8089	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8090	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8091	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8101	EMIFIL	BK1608HS601-T	1	230984R1
R8102	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8103	EMIFIL	BK1608HS601-T	1	230984R1
R8104	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8105	EMIFIL	BK1608HS601-T	1	230984R1
R8106	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8108	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8109	C-CARBON R	RN72K1J-750JE	1	435037504R1

R8110	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8111	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8112	C-CARBON R	RN72K1J-750JE	1	435037504R1
R8113	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8114	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8115	C-CARBON R	RN72K1J-272JE	1	435032724R1
R8116	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8117	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8119	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8120	C-CARBON R	RN72K1J-333JE	1	435033334R1
R8121	C-CARBON R	RN72K1J-182JE	1	435031824R1
R8123	C-R NET	RM7LJ220X04	1	43484722004R2
R8124	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8125	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8126	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8127	C-CARBON R	RN72K1J-105JE	1	435031054R1
R8128	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8130	C-R NET	RM7LJ220X04	1	43484722004R2
R8131	C-R NET	RM7LJ220X04	1	43484722004R2
R8132	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8133	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8134	C-R NET	RM7LJ220X04	1	43484722004R2
R8135	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8136	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8137	C-R NET	RM7LJ220X04	1	43484722004R2
R8138	C-R NET	RM7LJ220X04	1	43484722004R2
R8139	C-R NET	RM7LJ220X04	1	43484722004R2
R8140	C-R NET	RM7LJ220X04	1	43484722004R2
R8141	C-R NET	RM7LJ220X04	1	43484722004R2
R8142	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8148	C-CARBON R	RN72K1J-680JE	1	435036804R1
R8149	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8151	C-CARBON R	RN72K1J-104JE	1	435031044R1
R8152	C-CARBON R	RN72K1J-104JE	1	435031044R1
R8153	C-CARBON R	RN72K1J-104JE	1	435031044R1
R8155	C-CARBON R	RN72K1J-104JE	1	435031044R1
R8156	C-CARBON R	RN72K1J-104JE	1	435031044R1
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R8168	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8169	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8170	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8171	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8172	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8181	C-R NET	RM7LJ220X04	1	43484722004R2
R8182	C-R NET	RM7LJ220X04	1	43484722004R2

R8183	C-R NET	RM7LJ220X04	1	43484722004R2	
R8184	C-R NET	RM7LJ220X04	1	43484722004R2	
R8185	C-R NET	RM7LJ220X04	1	43484722004R2	
R8186	C-R NET	RM7LJ220X04	1	43484722004R2	
R8187	C-R NET	RM7LJ220X04	1	43484722004R2	
R8188	C-CARBON R	RN72K1J-330JE	1	435033304R1	
R8189	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R8190	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R8191	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R8192	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R8193	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R8194	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R8195	C-CARBON R	RN72K1J-000JE	1	435030004R1	
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R8199	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R8200	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R8323	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R8324	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8325	C-CARBON R	RN72K1J-473JE	1	435034734R1	
R8333	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R8334	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R8335	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R8337	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8338	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8341	C-CARBON R	RN72K2E-100JE	1	435221004R1	
R8384	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R8401	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8402	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8403	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8404	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8405	C-R NET	RM7LJ220X04	1	43484722004R2	
R8406	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8407	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8408	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8409	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8410	C-CARBON R	RN72K1J-561JE	1	435035614R1	
R8411	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8413	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8414	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8415	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8416	C-R NET	RM7LJ220X04	1	43484722004R2	
R8417	C-R NET	RM7LJ220X04	1	43484722004R2	
R8418	C-R NET	RM7LJ220X04	1	43484722004R2	

R8421	C-R NET	RM7LJ220X04	1	43484722004R2
R8422	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8423	C-R NET	RM7LJ220X04	1	43484722004R2
R8424	C-R NET	RM7LJ220X04	1	43484722004R2
R8425	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8426	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8427	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8452	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8461	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8462	C-CARBON R	RN72K1J-273JE	1	435032734R1
R8501	C-CARBON R	RN72K1J-330JE	1	435033304R1
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R8503	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8508	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8509	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8511	C-R NET	RM7LJ330X04	1	43484733004R2
R8512	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8513	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8514	C-CARBON R	RN72K1J-470JE	1	435034704R1
R8515	C-CARBON R	RN72K1J-105JE	1	435031054R1
R8516	C-CARBON R	RN72K1J-330JE	1	435033304R1
R8517	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8518	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8519	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8520	C-CARBON R	RN72K1J-101JE	1	435031014R1
R8521	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8522	C-R NET	RM7LJ330X04	1	43484733004R2
R8523	C-R NET	RM7LJ330X04	1	43484733004R2
R8524	C-CARBON R	RN72K1J-100JE	1	435031004R1
R8525	C-R NET	RM7LJ330X04	1	43484733004R2
R8526	C-R NET	RM7LJ330X04	1	43484733004R2
R8527	C-R NET	RM7LJ330X04	1	43484733004R2
R8528	C-R NET	RM7LJ330X04	1	43484733004R2
R8534	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8535	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8536	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8538	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8539	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8540	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8541	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8542	C-CARBON R	RN72K1J-332JE	1	435033324R1
R8543	C-CARBON R	RN72K1J-332JE	1	435033324R1
R8545	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8546	C-CARBON R	RN72K1J-332JE	1	435033324R1
R8547	C-CARBON R	RN72K1J-332JE	1	435033324R1

R8567	C-CARBON R	RN72K1J-000JE	1	435030004R1
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R8591	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8592	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8593	C-CARBON R	RN72K1J-821JE	1	435038214R1
R8633	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8634	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R8641	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8642	C-CARBON R	RN72K1J-332JE	1	435033324R1
R8643	C-CARBON R	RN72K1J-332JE	1	435033324R1
R8645	C-CARBON R	RN72K1J-102JE	1	435031024R1
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R8705	C-CARBON R	RN72K1J-102JE	1	435031024R1
R8706	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R8708	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8709	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8710	C-CARBON R	RN72K1J-103JE	1	435031034R1
R8711	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8712	C-CARBON R	RN72K1J-222JE	1	435032224R1
R8713	C-CARBON R	RN72K1J-220JE	1	435032204R1
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R8717	C-CARBON R	RN72K1J-000JE	1	435030004R1
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R8719	C-CARBON R	RN72K1J-220JE	1	435032204R1
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R8736	C-CARBON R	RN72K1J-220JE	1	435032204R1
R8737	C-R NET	RM7LJ220X04	1	43484722004R2
R8738	C-CARBON R	RN72K1J-473JE	1	435034734R1
R8739	C-CARBON R	RN72K1J-220JE	1	435032204R1
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R8799	C-CARBON R	RN72K1J-000JE	1	435030004R1
R8802	C-CARBON R	RN72K1J-472JE	1	435034724R1
R8805	C-CARBON R	RN72K1J-220JE	1	435032204R1

R8806	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8807	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R8808	C-CARBON R	RN72K1J-122JE	1	435031224R1	
R8809	C-CARBON R	RN72K1J-122JE	1	435031224R1	
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R8811	C-CARBON R	RN72K1J-122JE	1	435031224R1	
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R8813	C-R NET	RM7LJ330X04	1	43484733004R2	
R8814	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8815	C-CARBON R	RN72K1J-220JE	1	435032204R1	
R8816	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R8859	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R8901	C-CARBON R	RN72K1J-820JE	1	435038204R1	
R8902	C-CARBON R	RN72K1J-820JE	1	435038204R1	
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R8904	C-CARBON R	RN72K1J-820JE	1	435038204R1	
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R8912	C-CARBON R	RN72K1J-680JE	1	435036804R1	
R8913	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R8914	C-CARBON R	RN72K1J-101JE	1	435031014R1	
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R8916	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R8917	C-CARBON R	RN72K1J-101JE	1	435031014R1	
R8918	C-CARBON R	RN72K1J-101JE	1	435031014R1	
JL8001B	WIRE TRAP	NPLG-4P587	1	25055625	
P4008A	SOCKET	NSCT-21P2114	1	25052217	
P8003B	SOCKET	NSCT-18P1316	1	25051529	
P8098	HOLDER	(CRAMP) UA-0 V0	1	27190608-1	
P8099	WS CLAMP	CB-71683(L=50)	1	260261	
P8302	SOCKET	CSS5019-0311F	1	25053198R2	
P8501	SOCKET	CSS5019-0311F	1	25053198R2	
P8601	SOCKET	CSS5019-0311F	1	25053198R2	
P8702	PLUG	NPLG-8P660	1	25055704	
E8000	TRM(SCREW)	NEJITANSI M3	1	25065425	

U09 VIDEO PC BOARD (NAVD-8991-1D/1E)
U10 VIDEO TERMINAL PC BOARD (NAVD-8992-1D/1E)
U11 VIDEO TERMINAL PC BOARD (NAVD-8993-1D/1E)
U12 XM PC BOARD (NARF-8994-1D)

CIRCUIT NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
Q2001	IC	F2621E-01	1	22242384R3	<DC>
Q2001 or	IC	F2602E-01	(1)	22242266R2	<DC>
Q2002	IC	AK4384ET	1	22242280R2	<DC>
Q2003	IC	NE5532APSR	1	22242283R2	<DC>
Q2004	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO	<DC>
Q2004 or	IC	BA33BC0FP	(1)	22278033DR2RH	<DC>
Q2004 or	IC	NJM2391DL1-33	(1)	22278033DR2JR	<DC>
Q2005	IC	78L05(NJM78L05UA)	1	222780053R2JR	<DC>
Q2006	IC	TC74HCT7007AF(EL_F)	1	222740077R2TO	<DC>
Q2007	IC	TC74VHC541FT(EKJ)	1	22274541E1R2TO	<DC>
Q2007 or	IC	SN74AHC541PWR	(1)	22274541IR2TI	<DC>
Q2007 or	IC	TC74VHC541FT	(1)	22274541ER2TO	<DC>
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Q4001 or	IC	MPC2905AT	(1)	22278005DR2NE	
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Q4004	IC	LC74763-9836	1	22241779	
Q4008	TR	2SB1240-R	1	2213794T	
Q4011	TR	KRA102S	1	2216220R2	
Q4011 or	TR	RN2402	(1)	2214530R2	
Q4011 or	TR	UNR2111	(1)	2217110R2	
Q4012	TR	KTA1504-GR	1	2216185R2	
Q4012 or	TR	2SA1162-GR	(1)	2214375R2	
Q4013	TR	KTA1504-GR	1	2216185R2	
Q4013 or	TR	2SA1162-GR	(1)	2214375R2	
Q4014	TR	KTA1504-GR	1	2216185R2	
Q4014 or	TR	2SA1162-GR	(1)	2214375R2	
Q4015	TR	RN1443	1	2215510R2	
Q4015 or	TR	KRC286S	(1)	2217250R2	
Q4016	TR	RN1443	1	2215510R2	
Q4016 or	TR	KRC286S	(1)	2217250R2	
Q4017	TR	KTC3875-GR	1	2216175R2	
Q4017 or	TR	2SC2712-GR	(1)	2213145R2	
Q4019	TR	RN1444-A	1	2216031R2	
Q4019 or	TR	KRC281S	(1)	2217200R2	
Q4019 or	TR	RN1444-B	(1)	2216032R2	
Q4020	TR	KTC3875-GR	1	2216175R2	
Q4020 or	TR	2SC2712-GR	(1)	2213145R2	
Q4021	TR	KTA1504-GR	1	2216185R2	

Q4021 or	TR	2SA1162-GR	(1)	2214375R2	
Q4022	TR	KTA1504-GR	1	2216185R2	
Q4022 or	TR	2SA1162-GR	(1)	2214375R2	
Q4051	TR	KRC101S	1	2216330R2	
Q4051 or	TR	RN1401(TE85L_F)	(1)	2214460R2	
Q4052	TR	KRC101S	1	2216330R2	
Q4052 or	TR	RN1401(TE85L_F)	(1)	2214460R2	
Q4053	TR	KRC101S	1	2216330R2	
Q4053 or	TR	RN1401(TE85L_F)	(1)	2214460R2	
Q4054	TR	KRC101S	1	2216330R2	
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D4001 or	C-DIODE	KDS4148U	(1)	223283R2	
D4001 or	C-DIODE	MA2J111	(1)	223279R2	
D4002	C-DIODE	1SS352	1	223234R2	
D4002 or	C-DIODE	1SS355	(1)	223269R2	
D4002 or	C-DIODE	KDS4148U	(1)	223283R2	
D4002 or	C-DIODE	MA2J111	(1)	223279R2	
D4142	C-DIODE	1SS352	1	223234R2	
D4142 or	C-DIODE	1SS355	(1)	223269R2	
D4142 or	C-DIODE	KDS4148U	(1)	223283R2	
D4142 or	C-DIODE	MA2J111	(1)	223279R2	
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C2007	VR C	CE04W16V-100M(VR)	1	394641017T	<DC>
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C2016	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	<DC>
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C4001	VR C	CE04W50V-10M(VR)	1	394681007T	
C4002	VR C	CE04W50V-10M(VR)	1	394681007T	
C4003	VR C	CE04W50V-10M(VR)	1	394681007T	
C4004	VR C	CE04W50V-10M(VR)	1	394681007T	
C4005	VR C	CE04W50V-10M(VR)	1	394681007T	
C4006	VR C	CE04W50V-10M(VR)	1	394681007T	
C4007	VR C	CE04W50V-10M(VR)	1	394681007T	
C4008	VR C	CE04W50V-10M(VR)	1	394681007T	
C4009	VR C	CE04W50V-10M(VR)	1	394681007T	
C4010	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4011	VR C	CE04W50V-10M(VR)	1	394681007T	
C4012	VR C	CE04W50V-10M(VR)	1	394681007T	
C4013	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4014	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4015	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4016	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4017	VR C	CE04W50V-10M(VR)	1	394681007T	
C4018	VR C	CE04W50V-10M(VR)	1	394681007T	
C4019	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4020	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4021	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4022	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4023	VR C	CE04W50V-10M(VR)	1	394681007T	
C4024	VR C	CE04W50V-10M(VR)	1	394681007T	
C4025	C-CERA C	CK725F1E-104Z1	1	332161040R1	

C4026	VR C	CE04W50V-10M(VR)	1	394681007T	
C4027	VR C	CE04W50V-10M(VR)	1	394681007T	
C4079	C-CERA C	CC725CH1H-100D1	1	342101002R1	
C4080	C-CERA C	CC725CH1H-180J1	1	342101804R1	
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C4084	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4085	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4086	VR C	CE04W50V-1M(VR)	1	394680107T	
C4087	TF C	ECQ-V50V-474J	1	374724744T	
C4088	C-CERA C	CC725CH1H-270J1	1	342102704R1	
C4089	C-CERA C	CC725CH1H-220J1	1	342102204R1	
C4090	TF C	ECQ-B50V-223J	1	374722234T	
C4091	VR C	CE04W50V-1M(VR)	1	394680107T	
C4092	TF C	ECQ-B50V-682J	1	374726824T	
C4093	VR C	CE04W50V-0.33M(VR)	1	394683397T	
C4094	C-CERA C	CK725B1H-122K1	1	332101225R1	
C4095	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4096	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4097	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4098	VR C	CE04W16V-100M(VR)	1	394641017T	
C4099	VR C	CE04W16V-100M(VR)	1	394641017T	
C4100	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4101	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4102	C-CERA C	CK725B1H-103K1	1	332101035R1	
C4103	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4104	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4105	VR C	CE04W50V-22M(VR)	1	394682207T	
C4106	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4107	VR C	CE04W50V-22M(VR)	1	394682207T	
C4108	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4109	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4110	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4111	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4112	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4114	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4116	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4118	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4119	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4121	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4122	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4123	VR C	CE04W35V-47M(VR)	1	394664707T	
C4124	VR C	CE04W35V-47M(VR)	1	394664707T	
C4125	C-CERA C	CK725F1E-104Z1	1	332161040R1	

C4127	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4129	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4130	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4131	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4132	VR C	CE04W50V-10M(VR)	1	394681007T	
C4133	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4134	VR C	CE04W6.3V-220M(VR)	1	394622217T	
C4135	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4136	VR C	CE04W50V-22M(VR)	1	394682207T	
C4137	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4138	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4139	VR C	CE04W50V-10M(VR)	1	394681007T	
C4140	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4141	VR C	CE04W35V-47M(VR)	1	394664707T	
C4142	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4143	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4144	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4147	VR C	CE04W50V-0.47M(VR)	1	394684797T	
C4150	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4151	VR C	CE04W50V-10M(VR)	1	394681007T	
C4152	VR C	CE04W50V-10M(VR)	1	394681007T	
C4153	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4154	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C4155	C-CERA C	CC725CH1H-221J1	1	342102214R1	
C4158	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4159	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4160	C-CERA C	CC725CH1H-470J1	1	342104704R1	
C4161	C-CERA C	CC725CH1H-181J1	1	342101814R1	
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C4170	VR C	CE04W16V-100M(VR)	1	394641017T	
C4190	C-CERA C	CK725B1H-102K1	1	332101025R1	
C4191	C-CERA C	CK725B1H-102K1	1	332101025R1	
C4201	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4202	VR C	CE04W6.3V-470M(VR)	1	394624717T	
C4203	VR C	CE04W16V-100M(VR)	1	394641017T	
C4217	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4218	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4219	C-CERA C	CC725CH1H-181J1	1	342101814R1	
C4242	C-CERA C	CK725F1E-104Z1	1	332161040R1	
C4243	C-CERA C	CK725F1E-104Z1	1	332161040R1	
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R4003	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4004	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4005	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4006	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4007	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4008	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4009	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4010	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4011	C-CARBON R	RN72K1J-750JE	1	435037504R1	
R4012	C-CARBON R	RN72K1J-820JE	1	435038204R1	
R4013	C-CARBON R	RN72K1J-750JE	1	435037504R1	

R4014	C-CARBON R	RN72K1J-750JE	1	435037504R1
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R4022	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4023	C-CARBON R	RN72K1J-750JE	1	435037504R1
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R4029	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4030	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4031	C-CARBON R	RN72K2E-022JE	1	435220224R1
R4032	C-CARBON R	RN72K2E-022JE	1	435220224R1
R4033	C-CARBON R	RN72K2E-022JE	1	435220224R1
R4036	METAL R	RNU1/2WCJ-0.22	1	453532294T
R4037	METAL O R	RS1/2WBJ-15	1	443521504T
R4038	METAL O R	RS1WBJ-82	1	443628204T
R4039	METAL O R	RS1WBJ-82	1	443628204T
R4040	C-CARBON R	RN72K1J-103JE	1	435031034R1
R4041	C-CARBON R	RN72K1J-103JE	1	435031034R1
R4100	C-CARBON R	RN72K1J-222JE	1	435032224R1
R4101	C-CARBON R	RN72K1J-222JE	1	435032224R1
R4102	C-CARBON R	RN72K1J-222JE	1	435032224R1
R4103	C-CARBON R	RN72K1J-102JE	1	435031024R1
R4104	C-CARBON R	RN72K1J-121JE	1	435031214R1
R4105	C-CARBON R	RN72K1J-682JE	1	435036824R1
R4106	C-CARBON R	RN72K1J-682JE	1	435036824R1
R4107	C-CARBON R	RN72K1J-152JE	1	435031524R1
R4108	C-CARBON R	RN72K1J-824JE	1	435038244R1
R4109	C-CARBON R	RN72K1J-102JE	1	435031024R1
R4110	C-CARBON R	RN72K1J-102JE	1	435031024R1
R4111	C-CARBON R	RN72K1J-473JE	1	435034734R1
R4112	C-CARBON R	RN72K1J-332JE	1	435033324R1
R4113	C-CARBON R	RN72K1J-103JE	1	435031034R1
R4114	C-CARBON R	RN72K1J-680JE	1	435036804R1
R4115	C-CARBON R	RN72K1J-103JE	1	435031034R1
R4116	C-CARBON R	RN72K1J-222JE	1	435032224R1
R4117	C-CARBON R	RN72K1J-334JE	1	435033344R1
R4118	C-CARBON R	RN72K1J-123JE	1	435031234R1

R4119	C-CARBON R	RN72K1J-272JE	1	435032724R1
R4120	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4121	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4124	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4125	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4128	C-CARBON R	RN72K1J-330JE	1	435033304R1
R4129	C-CARBON R	RN72K1J-330JE	1	435033304R1
R4136	C-CARBON R	RN72K1J-330JE	1	435033304R1
R4145	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4147	C-CARBON R	RN72K1J-272JE	1	435032724R1
R4148	C-CARBON R	RN72K1J-473JE	1	435034734R1
R4150	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4151	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4152	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4153	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4154	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4155	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4156	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4157	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4158	C-CARBON R	RN72K1J-000JE	1	435030004R1
R4161	C-CARBON R	RN72K1J-182JE	1	435031824R1
R4162	C-CARBON R	RN72K1J-271JE	1	435032714R1
R4163	C-CARBON R	RN72K1J-682JE	1	435036824R1
R4164	C-CARBON R	RN72K1J-472JE	1	435034724R1
R4165	C-CARBON R	RN72K1J-102JE	1	435031024R1
R4166	C-CARBON R	RN72K1J-331JE	1	435033314R1
R4167	C-CARBON R	RN72K1J-331JE	1	435033314R1
R4168	C-CARBON R	RN72K1J-101JE	1	435031014R1
R4169	C-CARBON R	RN72K1J-123JE	1	435031234R1
R4170	C-CARBON R	RN72K1J-272JE	1	435032724R1
R4171	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4172	C-CARBON R	RN72K1J-221JE	1	435032214R1
R4173	C-CARBON R	RN72K1J-101JE	1	435031014R1
R4174	C-CARBON R	RN72K1J-101JE	1	435031014R1
R4201	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4202	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4203	C-CARBON R	RN72K1J-750JE	1	435037504R1
R4204	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4205	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4206	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4207	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4208	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4209	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4210	C-CARBON R	RN72K1J-104JE	1	435031044R1
R4211	C-CARBON R	RN72K1J-104JE	1	435031044R1

R4212	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4213	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4214	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4215	C-CARBON R	RN72K1J-104JE	1	435031044R1	
R4221	C-CARBON R	RN72K1J-000JE	1	435030004R1	
R4225	C-CARBON R	RN72K1J-000JE	1	435030004R1	
JL2006	JUMPER LEAD	JL5 100 H	1	5J100606H	
JL2006A	WIRE HOL	NSCT-5P896	1	25051109	
L2001	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	<DC>
L2002	EMIFIL	BK1608LM182-T	1	230958R1	<DC>
L2003	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	<DC>
L2004	CHOKE COIL	BLM21PG221SN1	1	230949R2	<DC>
L2005	CHOKE COIL	BLM21PG221SN1	1	230949R2	<DC>
L4007	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
L4008	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
L4009	CHOKE COIL	NCH-1572	1	231292J056R2	
P2001	SOCKET	CAM-C16	1	25053104R2	<DC>
P2004B	SOCKET	NSCT-8P2188	1	25052291	
P2005B	SOCKET	NSCT-10P2190	1	25052293	
P2006B	PLUG	NPLG-6P134	1	25055150	
P4001	PIN JACK	NPJ-6PDGLR649	1	25045874	
P4002	PIN JACK	NPJ-6PDGLR649	1	25045874	
P4003	PIN JACK	NPJ-10PDSY628	1	25045849	
P4003 or	PIN JACK	NPJ-10PDBY481	(1)	25045684	
P4004	PIN JACK	NPJ-10PDSY628	1	25045849	
P4004 or	PIN JACK	NPJ-10PDBY481	(1)	25045684	
P4005	PIN JACK	NPJ-10PDSY628	1	25045849	
P4005 or	PIN JACK	NPJ-10PDBY481	(1)	25045684	
P4006	PIN JACK	NPJ-5PDSY629	1	25045850	
P4006 or	PIN JACK	NPJ-5PDBY482	(1)	25045685	
P4008B	SOCKET	NSCT-21P2114	1	25052217	
P710B	SOCKET	NSCT-17P2110	1	25052213	<DC>
E2001	TRM(SCREW)	NEJITANSI M3	1	25065425	<DC>
E2002	TRM(SCREW)	NEJITANSI M3	1	25065425	<DC>
E2003	RETAINER	(XM)	1	27142048	<DC>

U13 **DSP PC BOARD (NADG-8996-1G/1H)**

U14 **MICROPROCESSOR PC BOARD (NAAR-8997-1G/1H)**

CIRCUIT NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
Q121	IC	74HCU04F	1	222740046R2	
Q121 or	IC	SN74HCU04NSR	(1)	222740046R2TI	
Q131	IC	TC7WU04FU(TE12L_F)	1	22240935R2	
Q141	IC	TC74VHC157FT	1	22274157ER2TO	
Q141 or	IC	SN74AHC157PWR	(1)	22274157IR2TI	

Q161	IC	TC74VHC157FT	1	22274157ER2TO
Q161 or	IC	SN74AHC157PWR	(1)	22274157IR2TI
Q191	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
Q191 or	IC	BA33BC0FP	(1)	22278033DR2RH
Q192	IC	TA48025AF(TE16L_NQ)	1	22278025DR2TO
Q192 or	IC	BA25BCOFP	(1)	22241835R2
Q193	IC	TA4805AF(TE16L_NQ)	1	22278005DR2TO
Q193 or	IC	MPC2905AT	(1)	22278005DR2NE
Q194	TR	2SB1132	1	2216400R2
Q201	IC	CS494003CQZ	1	22242039R3
Q211	IC	MX26LV040-70	1	222W0037R3
Q211 or	IC	EN29LV040A-70TCP	(1)	222W0043R3
Q285	IC	IC42S16100	1	22242123R2
Q285 or	IC	M12L16161A-7TG	(1)	22242278R3
Q301	IC	NE5532APSR	1	22242283R2
Q302	IC	NE5532APSR	1	22242283R2
Q303	IC	NE5532APSR	1	22242283R2
Q331	IC	CS5340-CZ(SE-U33GX)	1	22242187R2
Q341	IC	CS5340-CZ(SE-U33GX)	1	22242187R2
Q351	IC	CS5340-CZ(SE-U33GX)	1	22242187R2
Q361	IC	CS42528-CQZR-D	1	22242275R2
Q400	IC	NE5532APSR	1	22242283R2
Q401	IC	NE5532APSR	1	22242283R2
Q402	IC	NE5532APSR	1	22242283R2
Q403	IC	NE5532APSR	1	22242283R2
Q410	IC	NE5532APSR	1	22242283R2
Q411	IC	NE5532APSR	1	22242283R2
Q412	IC	NE5532APSR	1	22242283R2
Q413	IC	NE5532APSR	1	22242283R2
Q420	IC	NE5532APSR	1	22242283R2
Q421	IC	NE5532APSR	1	22242283R2
Q422	IC	NE5532APSR	1	22242283R2
Q423	IC	NE5532APSR	1	22242283R2
Q430	IC	NE5532APSR	1	22242283R2
Q431	IC	NE5532APSR	1	22242283R2
Q432	IC	NE5532APSR	1	22242283R2
Q433	IC	NE5532APSR	1	22242283R2
Q601	TR	KRC104S	1	2216210R2
Q601 or	TR	RN1404	(1)	2214490R2
Q701	IC	M30627FJPGP U5C	1	222W0055R3
Q703	TR	KRA102S	1	2216220R2
Q703 or	TR	RN2402	(1)	2214530R2
Q704	TR	KRA102S	1	2216220R2
Q704 or	TR	RN2402	(1)	2214530R2
Q705	TR	KRC104S	1	2216210R2

Q705 or	TR	RN1404	(1)	2214490R2
Q706	TR	KRA102S	1	2216220R2
Q706 or	TR	RN2402	(1)	2214530R2
Q707	TR	KRC104S	1	2216210R2
Q707 or	TR	RN1404	(1)	2214490R2
Q708	TR	KRA102S	1	2216220R2
Q708 or	TR	RN2402	(1)	2214530R2
Q709	TR	KRC104S	1	2216210R2
Q709 or	TR	RN1404	(1)	2214490R2
Q710	IC	XC6213B332MR	1	22242277R2
Q711	IC	TC74VHCT541AFT	1	22274541GR2TO
Q711 or	IC	SN74AHCT541PWR	(1)	22274541GR2TI
Q712	IC	TC74VHC541FT(EKJ)	1	22274541E1R2TO
Q712 or	IC	SN74AHC541PWR	(1)	22274541IR2TI
Q712 or	IC	TC74VHC541FT	(1)	22274541ER2TO
Q713	IC	TC74VHC541FT(EKJ)	1	22274541E1R2TO
Q713 or	IC	SN74AHC541PWR	(1)	22274541IR2TI
Q713 or	IC	TC74VHC541FT	(1)	22274541ER2TO
Q714	IC	S-812C56AUA-C3K	1	22242207R2
Q715	IC	78L09(NJM78L09UA)	1	222780093R2JR
Q721	TR	KRA102S	1	2216220R2
Q721 or	TR	RN2402	(1)	2214530R2
Q722	TR	KRC104S	1	2216210R2
Q722 or	TR	RN1404	(1)	2214490R2
Q723	TR	KRA102S	1	2216220R2
Q723 or	TR	RN2402	(1)	2214530R2
Q724	TR	KRC104S	1	2216210R2
Q724 or	TR	RN1404	(1)	2214490R2
D601	C-DIODE	KDS4148U	1	223283R2
D601 or	C-DIODE	1SS352	(1)	223234R2
D601 or	C-DIODE	1SS355	(1)	223269R2
D601 or	C-DIODE	MA2J111	(1)	223279R2
D602	C-DIODE	KDS4148U	1	223283R2
D602 or	C-DIODE	1SS352	(1)	223234R2
D602 or	C-DIODE	1SS355	(1)	223269R2
D602 or	C-DIODE	MA2J111	(1)	223279R2
D604	ZENER D	UDZS5.1B	1	224550510R2
D604 or	ZENER D	MAZ8051	(1)	224750510R2
D605	C-DIODE	KDS4148U	1	223283R2
D605 or	C-DIODE	1SS352	(1)	223234R2
D605 or	C-DIODE	1SS355	(1)	223269R2
D605 or	C-DIODE	MA2J111	(1)	223279R2
D606	C-DIODE	KDS4148U	1	223283R2
D606 or	C-DIODE	1SS352	(1)	223234R2
D606 or	C-DIODE	1SS355	(1)	223269R2

D606 or	C-DIODE	MA2J111	(1)	223279R2
D607	C-DIODE	KDS4148U	1	223283R2
D607 or	C-DIODE	1SS352	(1)	223234R2
D607 or	C-DIODE	1SS355	(1)	223269R2
D607 or	C-DIODE	MA2J111	(1)	223279R2
D611	C-DIODE	KDS4148U	1	223283R2
D611 or	C-DIODE	1SS352	(1)	223234R2
D611 or	C-DIODE	1SS355	(1)	223269R2
D611 or	C-DIODE	MA2J111	(1)	223279R2
L101	CHOKE COIL	NCH-1471	1	231237K022R2
L102	CHOKE COIL	NCH-1471	1	231237K022R2
L121	CHOKE COIL	NCH-1479	1	231237K470R2
L122	CHOKE COIL	NCH-1479	1	231237K470R2
L131	CHOKE COIL	NCH-1471	1	231237K022R2
L133	EMIFIL	BK1608HS102-T	1	230955R2
L141	CHOKE COIL	NCH-1471	1	231237K022R2
L142	EMIFIL	BK1608LL241-T	1	230959R1
L161	CHOKE COIL	NCH-1471	1	231237K022R2
L191	CHOKE COIL	NCH-1473	1	231237M047R2
L192	CHOKE COIL	NCH-1473	1	231237M047R2
L201	CHOKE COIL	NCH-1471	1	231237K022R2
L202	CHOKE COIL	NCH-1471	1	231237K022R2
L203	CHOKE COIL	NCH-1471	1	231237K022R2
L204	EMIFIL	BK1608LL241-T	1	230959R1
L281	CHOKE COIL	NCH-1471	1	231237K022R2
L285	CHOKE COIL	NCH-1471	1	231237K022R2
L331	CHOKE COIL	NCH-1479	1	231237K470R2
L332	CHOKE COIL	NCH-1471	1	231237K022R2
L341	CHOKE COIL	NCH-1479	1	231237K470R2
L342	CHOKE COIL	NCH-1471	1	231237K022R2
L351	CHOKE COIL	NCH-1479	1	231237K470R2
L352	CHOKE COIL	NCH-1471	1	231237K022R2
L361	CHOKE COIL	NCH-1471	1	231237K022R2
L362	EMIFIL	BK1608LM182-T	1	230958R1
L363	CHOKE COIL	NCH-1471	1	231237K022R2
L364	CHOKE COIL	NCH-1471	1	231237K022R2
L365	CHOKE COIL	NCH-1471	1	231237K022R2
L366	EMIFIL	BK1608LM182-T	1	230958R1
L367	EMIFIL	BK1608LM182-T	1	230958R1
L601	CHOKE COIL	NCH-1471	1	231237K022R2
L602	CHOKE COIL	NCH-1471	1	231237K022R2
L603	CHOKE COIL	NCH-1471	1	231237K022R2
L604	CHOKE COIL	NCH-1471	1	231237K022R2
C101	C-CERA C	CC725CH1H-101J1	1	342101014R1
C102	C-CERA C	CC725CH1H-101J1	1	342101014R1

C103	C-CERA C	CK725B1C-104K1	1	332121045R1
C104	C-CERA C	CK725B1C-104K1	1	332121045R1
C105	C-CERA C	CC725CH1H-080D1	1	342100802R1
C106	C-CERA C	CC725CH1H-080D1	1	342100802R1
C107	C-CERA C	CC725CH1H-080D1	1	342100802R1
C108	C-CERA C	CK725B1C-104K1	1	332121045R1
C111	C-CERA C	CK725F1E-104Z1	1	332161040R1
C112	C-CERA C	CK725F1E-104Z1	1	332161040R1
C113	C-CERA C	CK725F1E-104Z1	1	332161040R1
C114	C-CERA C	CK725F1E-104Z1	1	332161040R1
C115	C-CERA C	CK725F1E-104Z1	1	332161040R1
C116	VR C	CE04W16V-100M(VR)	1	394641017T
C121	VR C	CE04W16V-100M(VR)	1	394641017T
C122	C-CERA C	CK725F1E-104Z1	1	332161040R1
C125	C-CERA C	CK725B1H-102K1	1	332101025R1
C131	C-CERA C	CK725F1E-104Z1	1	332161040R1
C132	C-CERA C	CC725CH1H-120J1	1	342101204R1
C133	C-CERA C	CC725CH1H-120J1	1	342101204R1
C134	C-CERA C	CK725F1E-104Z1	1	332161040R1
C141	C-CERA C	CK725F1E-104Z1	1	332161040R1
C145	C-CERA C	CK725B1H-102K1	1	332101025R1
C146	C-CERA C	CK725F1E-104Z1	1	332161040R1
C161	C-CERA C	CK725F1E-104Z1	1	332161040R1
C191	VR C	CE04W6.3V-470M(VR)	1	394624717T
C192	VR C	CE04W16V-100M(VR)	1	394641017T
C193	VR C	CE04W6.3V-470M(VR)	1	394624717T
C194	VR C	CE04W16V-100M(VR)	1	394641017T
C195	VR C	CE04W16V-1000M(VR)	1	394641027T
C196	VR C	CE04W16V-100M(VR)	1	394641017T
C201	C-CERA C	CK725F1E-104Z1	1	332161040R1
C203	C-CERA C	CK725F1E-104Z1	1	332161040R1
C204	C-CERA C	CK725F1E-104Z1	1	332161040R1
C207	VR C	CE04W16V-100M(VR)	1	394641017T
C208	C-CERA C	CK725F1E-104Z1	1	332161040R1
C209	C-CERA C	CK725F1E-104Z1	1	332161040R1
C210	VR C	CE04W16V-100M(VR)	1	394641017T
C211	VR C	CE04W16V-100M(VR)	1	394641017T
C212	C-CERA C	CK725F1E-104Z1	1	332161040R1
C213	CHIP TANTAL	CS772SB1C-2.2M	1	395640227R2
C214	C-CERA C	CC725CH1H-122J1	1	342101224R1
C215	C-CERA C	CC725CH1H-680J1	1	342106804R1
C216	C-CERA C	CK725F1E-104Z1	1	332161040R1
C217	C-CERA C	CK725F1E-104Z1	1	332161040R1
C218	C-CERA C	CC725CH1H-331J1	1	342103314R1
C221	C-CERA C	CK725F1E-104Z1	1	332161040R1

C222	C-CERA C	CK725F1E-104Z1	1	332161040R1
C223	C-CERA C	CK725F1E-104Z1	1	332161040R1
C231	C-CERA C	CK725F1E-104Z1	1	332161040R1
C232	C-CERA C	CK725F1E-104Z1	1	332161040R1
C233	C-CERA C	CK725F1E-104Z1	1	332161040R1
C241	C-CERA C	CK725F1E-104Z1	1	332161040R1
C242	C-CERA C	CK725F1E-104Z1	1	332161040R1
C281	VR C	CE04W16V-100M(VR)	1	394641017T
C282	C-CERA C	CK725F1E-104Z1	1	332161040R1
C285	VR C	CE04W16V-100M(VR)	1	394641017T
C286	C-CERA C	CK725F1E-104Z1	1	332161040R1
C287	C-CERA C	CK725F1E-104Z1	1	332161040R1
C289	C-CERA C	CK725F1E-104Z1	1	332161040R1
C290	C-CERA C	CK725F1E-104Z1	1	332161040R1
C301	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C302	C-CERA C	CC725CH1H-101J1	1	342101014R1
C303	C-CERA C	CC732CH1H-222J	1	347342224R2
C304	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C305	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C306	C-CERA C	CC725CH1H-101J1	1	342101014R1
C307	C-CERA C	CC732CH1H-222J	1	347342224R2
C308	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C311	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C312	C-CERA C	CC725CH1H-101J1	1	342101014R1
C313	C-CERA C	CC732CH1H-222J	1	347342224R2
C314	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C315	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C316	C-CERA C	CC725CH1H-101J1	1	342101014R1
C317	C-CERA C	CC732CH1H-222J	1	347342224R2
C318	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C321	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C322	C-CERA C	CC725CH1H-101J1	1	342101014R1
C323	C-CERA C	CC732CH1H-222J	1	347342224R2
C324	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C325	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C326	C-CERA C	CC725CH1H-101J1	1	342101014R1
C327	C-CERA C	CC732CH1H-222J	1	347342224R2
C328	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C331	VR C	CE04W6.3V-100M(VR)	1	394621017T
C332	C-CERA C	CK725F1E-104Z1	1	332161040R1
C333	C-CERA C	CK725F1E-104Z1	1	332161040R1
C334	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C335	C-CERA C	CK725F1E-104Z1	1	332161040R1
C336	VR C	CE04W6.3V-100M(VR)	1	394621017T
C337	C-CERA C	CK725F1E-104Z1	1	332161040R1

C338	VR C	CE04W6.3V-100M(VR)	1	394621017T
C339	C-CERA C	CK725F1E-104Z1	1	332161040R1
C341	VR C	CE04W16V-100M(VR)	1	394641017T
C342	C-CERA C	CK725F1E-104Z1	1	332161040R1
C343	C-CERA C	CK725F1E-104Z1	1	332161040R1
C344	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C345	C-CERA C	CK725F1E-104Z1	1	332161040R1
C346	VR C	CE04W16V-100M(VR)	1	394641017T
C347	C-CERA C	CK725F1E-104Z1	1	332161040R1
C348	VR C	CE04W16V-100M(VR)	1	394641017T
C349	C-CERA C	CK725F1E-104Z1	1	332161040R1
C351	VR C	CE04W16V-100M(VR)	1	394641017T
C352	C-CERA C	CK725F1E-104Z1	1	332161040R1
C353	C-CERA C	CK725F1E-104Z1	1	332161040R1
C354	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C355	C-CERA C	CK725F1E-104Z1	1	332161040R1
C356	VR C	CE04W16V-100M(VR)	1	394641017T
C357	C-CERA C	CK725F1E-104Z1	1	332161040R1
C358	VR C	CE04W16V-100M(VR)	1	394641017T
C359	C-CERA C	CK725F1E-104Z1	1	332161040R1
C361	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C362	C-CERA C	CK725F1E-104Z1	1	332161040R1
C363	C-CERA C	CK725F1E-104Z1	1	332161040R1
C365	RFS C	CE04W25V-47M(RFS)	1	395954707T
C366	C-CERA C	CK725F1E-104Z1	1	332161040R1
C367	VR C	CE04W16V-100M(VR)	1	394641017T
C368	C-CERA C	CK725F1E-104Z1	1	332161040R1
C369	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C370	C-CERA C	CK725B1H-222K1	1	332102225R1
C371	C-CERA C	CK725B1H-473K1	1	332104735R1
C372	C-CERA C	CK725F1E-104Z1	1	332161040R1
C373	C-CERA C	CC725CH1H-330J1	1	342103304R1
C374	C-CERA C	CC725CH1H-330J1	1	342103304R1
C375	C-CERA C	CC725CH1H-330J1	1	342103304R1
C376	C-CERA C	CC725CH1H-330J1	1	342103304R1
C377	C-CERA C	CC725CH1H-330J1	1	342103304R1
C378	C-CERA C	CC725CH1H-330J1	1	342103304R1
C379	C-CERA C	CC725CH1H-330J1	1	342103304R1
C380	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C381	C-CERA C	CC725CH1H-330J1	1	342103304R1
C382	UTSP C	CE04W10V-220M(UTSP)	1	397532217T
C383	C-CERA C	CK725F1E-104Z1	1	332161040R1
C384	C-CERA C	CK725F1E-104Z1	1	332161040R1
C385	C-CERA C	CC725CH1H-331J1	1	342103314R1
C395	TF C	ECQ-B50V-222J	1	374722224T

C396	TF C	ECQ-B50V-222J	1	374722224T
C400	TF C	ECQ-B50V-471J	1	374724714T
C401	TF C	ECQ-B50V-471J	1	374724714T
C402	TF C	ECQ-B50V-471J	1	374724714T
C403	TF C	ECQ-B50V-471J	1	374724714T
C404	TF C	ECQ-B50V-471J	1	374724714T
C405	TF C	ECQ-B50V-471J	1	374724714T
C406	TF C	ECQ-B50V-471J	1	374724714T
C407	TF C	ECQ-V50V-333J	1	374723334T
C410	TF C	ECQ-B50V-121K	1	374721215T
C411	TF C	ECQ-B50V-121K	1	374721215T
C412	TF C	ECQ-B50V-121K	1	374721215T
C413	TF C	ECQ-B50V-121K	1	374721215T
C414	TF C	ECQ-B50V-121K	1	374721215T
C415	TF C	ECQ-B50V-121K	1	374721215T
C416	TF C	ECQ-B50V-121K	1	374721215T
C417	TF C	ECQ-B50V-153J	1	374721534T
C420	TF C	ECQ-B50V-121K	1	374721215T
C421	TF C	ECQ-B50V-121K	1	374721215T
C422	TF C	ECQ-B50V-121K	1	374721215T
C423	TF C	ECQ-B50V-121K	1	374721215T
C424	TF C	ECQ-B50V-121K	1	374721215T
C425	TF C	ECQ-B50V-121K	1	374721215T
C426	TF C	ECQ-B50V-121K	1	374721215T
C427	TF C	ECQ-B50V-153J	1	374721534T
C430	TF C	ECQ-B50V-122J	1	374721224T
C431	TF C	ECQ-B50V-122J	1	374721224T
C432	TF C	ECQ-B50V-122J	1	374721224T
C433	TF C	ECQ-B50V-122J	1	374721224T
C434	TF C	ECQ-B50V-122J	1	374721224T
C435	TF C	ECQ-B50V-122J	1	374721224T
C436	TF C	ECQ-B50V-122J	1	374721224T
C437	TF C	ECQ-B50V-122J	1	374721224T
C440	TF C	ECQ-B50V-471J	1	374724714T
C441	TF C	ECQ-B50V-471J	1	374724714T
C442	TF C	ECQ-B50V-471J	1	374724714T
C443	TF C	ECQ-B50V-471J	1	374724714T
C444	TF C	ECQ-B50V-471J	1	374724714T
C445	TF C	ECQ-B50V-471J	1	374724714T
C446	TF C	ECQ-B50V-471J	1	374724714T
C447	TF C	ECQ-B50V-471J	1	374724714T
C555	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C556	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C557	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C558	UTSP C	CE04W25V-220M(UTSP)	1	397552217T

C601	C-CERA C	CK725F1E-104Z1	1	332161040R1
C602	C-CERA C	CK725F1E-104Z1	1	332161040R1
C603	C-CERA C	CK725F1E-104Z1	1	332161040R1
C604	VR C	CE04W50V-4.7M(VR)	1	394680477T
C605	C-CERA C	CK725F1E-104Z1	1	332161040R1
C606	C-CERA C	CK725F1E-104Z1	1	332161040R1
C608	C-CERA C	CC725CH1H-101J1	1	342101014R1
C609	C-CERA C	CC725CH1H-101J1	1	342101014R1
C610	C-CERA C	CK725F1E-104Z1	1	332161040R1
C612	C-CERA C	CC725CH1H-102J1	1	342101024R1
C615	C-CERA C	CC725CH1H-102J1	1	342101024R1
C616	C-CERA C	CC725CH1H-102J1	1	342101024R1
C617	C-CERA C	CC725CH1H-102J1	1	342101024R1
C618	C-CERA C	CC725CH1H-102J1	1	342101024R1
C619	C-CERA C	CC725CH1H-102J1	1	342101024R1
C620	C-CERA C	CC725CH1H-102J1	1	342101024R1
C621	C-CERA C	CC725CH1H-102J1	1	342101024R1
C622	C-CERA C	CC725CH1H-102J1	1	342101024R1
C623	C-CERA C	CC725CH1H-102J1	1	342101024R1
C624	C-CERA C	CC725CH1H-102J1	1	342101024R1
C626	C-CERA C	CK725F1E-104Z1	1	332161040R1
C631	C-CERA C	CC725CH1H-102J1	1	342101024R1
C632	C-CERA C	CC725CH1H-102J1	1	342101024R1
C633	C-CERA C	CC725CH1H-102J1	1	342101024R1
C634	C-CERA C	CC725CH1H-102J1	1	342101024R1
C650	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C651	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C701	C-CERA C	CK725F1E-104Z1	1	332161040R1
C702	VR C	CE04W16V-100M(VR)	1	394641017T
C705	EDL C	DX-5R5L224	1	3000079
C709	C-CERA C	CK732B1C-474K	1	337394745R1
C710	VR C	CE04W50V-1M(VR)	1	394680107T
C711	C-CERA C	CK732B1C-474K	1	337394745R1
C712	VR C	CE04W50V-1M(VR)	1	394680107T
C713	C-CERA C	CK732B1C-474K	1	337394745R1
C714	VR C	CE04W50V-1M(VR)	1	394680107T
C715	C-CERA C	CK732B1C-474K	1	337394745R1
C716	VR C	CE04W16V-100M(VR)	1	394641017T
C717	C-CERA C	CK725F1E-104Z1	1	332161040R1
C718	C-CERA C	CK725F1E-104Z1	1	332161040R1
C719	C-CERA C	CK725F1E-104Z1	1	332161040R1
C720	VR C	CE04W16V-100M(VR)	1	394641017T
C723	VR C	CE04W6.3V-470M(VR)	1	394624717T
C724	VR C	CE04W16V-100M(VR)	1	394641017T
R101	C-CARBON R	RN72K1J-750JE	1	435037504R1

R102	C-CARBON R	RN72K1J-750JE	1	435037504R1
R103	C-CARBON R	RN72K1J-100JE	1	435031004R1
R104	C-CARBON R	RN72K1J-100JE	1	435031004R1
R105	C-CARBON R	RN72K1J-224JE	1	435032244R1
R106	C-CARBON R	RN72K1J-224JE	1	435032244R1
R107	C-CARBON R	RN72K1J-103JE	1	435031034R1
R108	C-CARBON R	RN72K1J-103JE	1	435031034R1
R109	C-CARBON R	RN72K1J-103JE	1	435031034R1
R110	C-CARBON R	RN72K1J-224JE	1	435032244R1
R111	C-CARBON R	RN72K1J-221JE	1	435032214R1
R112	C-CARBON R	RN72K1J-221JE	1	435032214R1
R113	C-CARBON R	RN72K1J-221JE	1	435032214R1
R114	C-CARBON R	RN72K1J-221JE	1	435032214R1
R115	C-CARBON R	RN72K1J-221JE	1	435032214R1
R125	C-CARBON R	RN72K1J-331JE	1	435033314R1
R131	C-CARBON R	RN72K1J-105JE	1	435031054R1
R133	C-CARBON R	RN72K1J-681JE	1	435036814R1
R135	C-CARBON R	RN72K1J-000JE	1	435030004R1
R141	C-CARBON R	RN72K1J-470JE	1	435034704R1
R142	C-CARBON R	RN72K1J-470JE	1	435034704R1
R143	C-CARBON R	RN72K1J-331JE	1	435033314R1
R144	C-CARBON R	RN72K1J-470JE	1	435034704R1
R145	C-CARBON R	RN72K1J-470JE	1	435034704R1
R146	C-CARBON R	RN72K1J-331JE	1	435033314R1
R147	C-CARBON R	RN72K1J-470JE	1	435034704R1
R148	C-CARBON R	RN72K1J-470JE	1	435034704R1
R149	C-CARBON R	RN72K1J-470JE	1	435034704R1
R150	C-CARBON R	RN72K1J-000JE	1	435030004R1
R161	C-CARBON R	RN72K1J-470JE	1	435034704R1
R162	C-CARBON R	RN72K1J-470JE	1	435034704R1
R163	C-CARBON R	RN72K1J-331JE	1	435033314R1
R164	C-CARBON R	RN72K1J-470JE	1	435034704R1
R165	C-CARBON R	RN72K1J-331JE	1	435033314R1
R166	C-CARBON R	RN72K1J-331JE	1	435033314R1
R167	C-CARBON R	RN72K1J-331JE	1	435033314R1
R168	C-CARBON R	RN72K1J-470JE	1	435034704R1
R169	C-CARBON R	RN72K1J-470JE	1	435034704R1
R170	C-CARBON R	RN72K1J-331JE	1	435033314R1
R171	C-CARBON R	RN72K1J-470JE	1	435034704R1
R172	C-CARBON R	RN72K1J-470JE	1	435034704R1
R192	METAL R	RNU1WCJ-3.9	1	453630394T
R193	METAL R	RNU1WCJ-4.7	1	453630474T
R194	METAL O R	RS1/2WBJ-10	1	443521004T
R195	METAL O R	RS1WBJ-82	1	443628204T
R201	C-CARBON R	RN72K1J-332JE	1	435033324R1

R202	C-CARBON R	RN72K1J-332JE	1	435033324R1
R203	C-CARBON R	RN72K1J-332JE	1	435033324R1
R204	C-CARBON R	RN72K1J-331JE	1	435033314R1
R205	C-CARBON R	RN72K1J-103JE	1	435031034R1
R206	C-CARBON R	RN72K1J-331JE	1	435033314R1
R207	C-CARBON R	RN72K1J-470JE	1	435034704R1
R208	C-CARBON R	RN72K1J-332JE	1	435033324R1
R209	C-CARBON R	RN72K1J-103JE	1	435031034R1
R210	C-CARBON R	RN72K1J-103JE	1	435031034R1
R211	C-CARBON R	RN72K1J-332JE	1	435033324R1
R212	C-CARBON R	RN72K1J-332JE	1	435033324R1
R213	C-CARBON R	RN72K1J-103JE	1	435031034R1
R214	C-CARBON R	RN72K1J-470JE	1	435034704R1
R215	C-CARBON R	RN72K1J-332JE	1	435033324R1
R216	C-CARBON R	RN72K1J-332JE	1	435033324R1
R217	C-CARBON R	RN72K1J-103JE	1	435031034R1
R218	C-CARBON R	RN72K1J-103JE	1	435031034R1
R219	C-CARBON R	RN72K1J-103JE	1	435031034R1
R220	C-CARBON R	RN72K1J-332JE	1	435033324R1
R221	C-CARBON R	RN72K1J-103JE	1	435031034R1
R222	C-CARBON R	RN72K1J-332JE	1	435033324R1
R223	C-CARBON R	RN72K1J-332JE	1	435033324R1
R224	C-CARBON R	RN72K1J-103JE	1	435031034R1
R225	C-CARBON R	RN72K1J-103JE	1	435031034R1
R226	C-CARBON R	RN72K1J-103JE	1	435031034R1
R227	C-CARBON R	RN72K1J-103JE	1	435031034R1
R228	C-CARBON R	RN72K1J-103JE	1	435031034R1
R229	C-CARBON R	RN72K1J-103JE	1	435031034R1
R230	C-CARBON R	RN72K1J-103JE	1	435031034R1
R231	C-CARBON R	RN72K1J-103JE	1	435031034R1
R232	C-CARBON R	RN72K1J-103JE	1	435031034R1
R233	C-CARBON R	RN72K1J-470JE	1	435034704R1
R234	C-CARBON R	RN72K1J-470JE	1	435034704R1
R235	C-CARBON R	RN72K1J-470JE	1	435034704R1
R236	C-CARBON R	RN72K1J-470JE	1	435034704R1
R237	C-CARBON R	RN72K1J-470JE	1	435034704R1
R238	C-CARBON R	RN72K1J-470JE	1	435034704R1
R239	C-CARBON R	RN72K1J-470JE	1	435034704R1
R240	C-CARBON R	RN72K1J-103JE	1	435031034R1
R241	C-CARBON R	RN72K1J-103JE	1	435031034R1
R242	C-CARBON R	RN72K1J-103JE	1	435031034R1
R243	C-CARBON R	RN72K1J-470JE	1	435034704R1
R244	C-CARBON R	RN72K1J-470JE	1	435034704R1
R245	C-CARBON R	RN72K1J-103JE	1	435031034R1
R246	C-CARBON R	RN72K1J-103JE	1	435031034R1

R247	C-CARBON R	RN72K1J-470JE	1	435034704R1
R248	C-CARBON R	RN72K1J-103JE	1	435031034R1
R249	C-CARBON R	RN72K1J-470JE	1	435034704R1
R250	C-CARBON R	RN72K1J-470JE	1	435034704R1
R251	C-CARBON R	RN72K1J-470JE	1	435034704R1
R252	C-CARBON R	RN72K1J-470JE	1	435034704R1
R253	C-CARBON R	RN72K1J-470JE	1	435034704R1
R254	C-CARBON R	RN72K1J-470JE	1	435034704R1
R255	C-CARBON R	RN72K1J-103JE	1	435031034R1
R256	C-CARBON R	RN72K1J-103JE	1	435031034R1
R257	C-CARBON R	RN72K1J-103JE	1	435031034R1
R258	C-CARBON R	RN72K1J-470JE	1	435034704R1
R259	C-CARBON R	RN72K1J-470JE	1	435034704R1
R260	C-CARBON R	RN72K1J-470JE	1	435034704R1
R261	C-CARBON R	RN72K1J-103JE	1	435031034R1
R262	C-CARBON R	RN72K1J-103JE	1	435031034R1
R263	C-CARBON R	RN72K1J-331JE	1	435033314R1
R264	C-CARBON R	RN72K1J-272JE	1	435032724R1
R265	C-CARBON R	RN72K1J-470JE	1	435034704R1
R266	C-CARBON R	RN72K1J-103JE	1	435031034R1
R267	C-CARBON R	RN72K1J-103JE	1	435031034R1
R268	C-CARBON R	RN72K1J-470JE	1	435034704R1
R269	C-CARBON R	RN72K1J-470JE	1	435034704R1
R270	C-CARBON R	RN72K1J-331JE	1	435033314R1
R271	C-CARBON R	RN72K1J-331JE	1	435033314R1
R272	C-CARBON R	RN72K1J-103JE	1	435031034R1
R273	C-CARBON R	RN72K1J-331JE	1	435033314R1
R274	C-CARBON R	RN72K1J-331JE	1	435033314R1
R275	C-CARBON R	RN72K1J-331JE	1	435033314R1
R276	C-CARBON R	RN72K1J-332JE	1	435033324R1
R277	C-CARBON R	RN72K1J-221JE	1	435032214R1
R278	C-CARBON R	RN72K1J-331JE	1	435033314R1
R281	C-CARBON R	RN72K1J-000JE	1	435030004R1
R285	C-CARBON R	RN72K1J-470JE	1	435034704R1
R291	C-CARBON R	RN72K1J-104JE	1	435031044R1
R292	C-CARBON R	RN72K1J-104JE	1	435031044R1
R293	C-CARBON R	RN72K1J-104JE	1	435031044R1
R294	C-CARBON R	RN72K1J-104JE	1	435031044R1
R295	C-CARBON R	RN72K1J-104JE	1	435031044R1
R296	C-CARBON R	RN72K1J-104JE	1	435031044R1
R301	C-CARBON R	RN72K1J-331JE	1	435033314R1
R302	C-CARBON R	RN72K1J-122JE	1	435031224R1
R303	C-CARBON R	RN72K1J-152JE	1	435031524R1
R304	C-CARBON R	RN72K1J-103JE	1	435031034R1
R305	C-CARBON R	RN72K1J-103JE	1	435031034R1

R306	C-CARBON R	RN72K1J-331JE	1	435033314R1
R307	C-CARBON R	RN72K1J-122JE	1	435031224R1
R308	C-CARBON R	RN72K1J-152JE	1	435031524R1
R309	C-CARBON R	RN72K1J-103JE	1	435031034R1
R310	C-CARBON R	RN72K1J-103JE	1	435031034R1
R311	C-CARBON R	RN72K1J-331JE	1	435033314R1
R312	C-CARBON R	RN72K1J-122JE	1	435031224R1
R313	C-CARBON R	RN72K1J-152JE	1	435031524R1
R314	C-CARBON R	RN72K1J-103JE	1	435031034R1
R315	C-CARBON R	RN72K1J-103JE	1	435031034R1
R316	C-CARBON R	RN72K1J-331JE	1	435033314R1
R317	C-CARBON R	RN72K1J-122JE	1	435031224R1
R318	C-CARBON R	RN72K1J-152JE	1	435031524R1
R319	C-CARBON R	RN72K1J-103JE	1	435031034R1
R320	C-CARBON R	RN72K1J-103JE	1	435031034R1
R321	C-CARBON R	RN72K1J-331JE	1	435033314R1
R322	C-CARBON R	RN72K1J-122JE	1	435031224R1
R323	C-CARBON R	RN72K1J-152JE	1	435031524R1
R324	C-CARBON R	RN72K1J-103JE	1	435031034R1
R325	C-CARBON R	RN72K1J-103JE	1	435031034R1
R326	C-CARBON R	RN72K1J-331JE	1	435033314R1
R327	C-CARBON R	RN72K1J-122JE	1	435031224R1
R328	C-CARBON R	RN72K1J-152JE	1	435031524R1
R329	C-CARBON R	RN72K1J-103JE	1	435031034R1
R330	C-CARBON R	RN72K1J-103JE	1	435031034R1
R331	C-CARBON R	RN72K1J-470JE	1	435034704R1
R332	C-CARBON R	RN72K1J-331JE	1	435033314R1
R333	C-CARBON R	RN72K1J-103JE	1	435031034R1
R334	C-CARBON R	RN72K1J-331JE	1	435033314R1
R335	C-CARBON R	RN72K1J-331JE	1	435033314R1
R337	C-CARBON R	RN72K1J-331JE	1	435033314R1
R341	C-CARBON R	RN72K1J-470JE	1	435034704R1
R342	C-CARBON R	RN72K1J-331JE	1	435033314R1
R343	C-CARBON R	RN72K1J-103JE	1	435031034R1
R344	C-CARBON R	RN72K1J-331JE	1	435033314R1
R345	C-CARBON R	RN72K1J-331JE	1	435033314R1
R347	C-CARBON R	RN72K1J-331JE	1	435033314R1
R351	C-CARBON R	RN72K1J-470JE	1	435034704R1
R352	C-CARBON R	RN72K1J-331JE	1	435033314R1
R353	C-CARBON R	RN72K1J-103JE	1	435031034R1
R354	C-CARBON R	RN72K1J-331JE	1	435033314R1
R355	C-CARBON R	RN72K1J-331JE	1	435033314R1
R357	C-CARBON R	RN72K1J-331JE	1	435033314R1
R361	C-CARBON R	RN72K1J-470JE	1	435034704R1
R362	C-CARBON R	RN72K1J-470JE	1	435034704R1

R363	C-CARBON R	RN72K1J-221JE	1	435032214R1
R364	C-CARBON R	RN72K1J-221JE	1	435032214R1
R365	C-CARBON R	RN72K1J-221JE	1	435032214R1
R366	C-CARBON R	RN72K1J-221JE	1	435032214R1
R367	C-CARBON R	RN72K1J-221JE	1	435032214R1
R368	C-CARBON R	RN72K1J-221JE	1	435032214R1
R371	C-CARBON R	RN72K1J-272JE	1	435032724R1
R372	C-CARBON R	RN72K1J-331JE	1	435033314R1
R373	C-CARBON R	RN72K1J-331JE	1	435033314R1
R374	C-CARBON R	RN72K1J-331JE	1	435033314R1
R375	C-CARBON R	RN72K1J-331JE	1	435033314R1
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R377	C-CARBON R	RN72K1J-331JE	1	435033314R1
R378	C-CARBON R	RN72K1J-331JE	1	435033314R1
R379	C-CARBON R	RN72K1J-331JE	1	435033314R1
R380	C-CARBON R	RN72K1J-331JE	1	435033314R1
R381	C-CARBON R	RN72K1J-470JE	1	435034704R1
R382	C-CARBON R	RN72K1J-470JE	1	435034704R1
R383	C-CARBON R	RN72K1J-470JE	1	435034704R1
R384	C-CARBON R	RN72K1J-470JE	1	435034704R1
R385	C-CARBON R	RN72K1J-470JE	1	435034704R1
R386	C-CARBON R	RN72K1J-470JE	1	435034704R1
R387	C-CARBON R	RN72K1J-470JE	1	435034704R1
R391	C-CARBON R	RN72K1J-560JE	1	435035604R1
R392	C-CARBON R	RN72K1J-560JE	1	435035604R1
R393	C-CARBON R	RN72K1J-560JE	1	435035604R1
R394	C-CARBON R	RN72K1J-560JE	1	435035604R1
R395	C-CARBON R	RN72K1J-392JE	1	435033924R1
R396	C-CARBON R	RN72K1J-392JE	1	435033924R1
R400	C-CARBON R	RN72K1J-332JE	1	435033324R1
R401	C-CARBON R	RN72K1J-332JE	1	435033324R1
R402	C-CARBON R	RN72K1J-332JE	1	435033324R1
R403	C-CARBON R	RN72K1J-332JE	1	435033324R1
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R406	C-CARBON R	RN72K1J-332JE	1	435033324R1
R407	C-CARBON R	RN72K1J-332JE	1	435033324R1
R410	C-CARBON R	RN72K1J-332JE	1	435033324R1
R411	C-CARBON R	RN72K1J-332JE	1	435033324R1
R412	C-CARBON R	RN72K1J-332JE	1	435033324R1
R413	C-CARBON R	RN72K1J-332JE	1	435033324R1
R414	C-CARBON R	RN72K1J-332JE	1	435033324R1
R415	C-CARBON R	RN72K1J-332JE	1	435033324R1
R416	C-CARBON R	RN72K1J-332JE	1	435033324R1
R417	C-CARBON R	RN72K1J-332JE	1	435033324R1

R420	C-CARBON R	RN72K1J-103JE	1	435031034R1
R421	C-CARBON R	RN72K1J-103JE	1	435031034R1
R422	C-CARBON R	RN72K1J-103JE	1	435031034R1
R423	C-CARBON R	RN72K1J-103JE	1	435031034R1
R424	C-CARBON R	RN72K1J-103JE	1	435031034R1
R425	C-CARBON R	RN72K1J-103JE	1	435031034R1
R426	C-CARBON R	RN72K1J-103JE	1	435031034R1
R427	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R434	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R437	C-CARBON R	RN72K1J-103JE	1	435031034R1
R440	C-CARBON R	RN72K1J-181JE	1	435031814R1
R441	C-CARBON R	RN72K1J-181JE	1	435031814R1
R442	C-CARBON R	RN72K1J-181JE	1	435031814R1
R443	C-CARBON R	RN72K1J-181JE	1	435031814R1
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R446	C-CARBON R	RN72K1J-181JE	1	435031814R1
R447	C-CARBON R	RN72K1J-332JE	1	435033324R1
R450	C-CARBON R	RN72K1J-181JE	1	435031814R1
R451	C-CARBON R	RN72K1J-181JE	1	435031814R1
R452	C-CARBON R	RN72K1J-181JE	1	435031814R1
R453	C-CARBON R	RN72K1J-181JE	1	435031814R1
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R455	C-CARBON R	RN72K1J-181JE	1	435031814R1
R456	C-CARBON R	RN72K1J-181JE	1	435031814R1
R457	C-CARBON R	RN72K1J-332JE	1	435033324R1
R460	C-CARBON R	RN72K1J-103JE	1	435031034R1
R461	C-CARBON R	RN72K1J-103JE	1	435031034R1
R462	C-CARBON R	RN72K1J-103JE	1	435031034R1
R463	C-CARBON R	RN72K1J-103JE	1	435031034R1
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R472	C-CARBON R	RN72K1J-103JE	1	435031034R1
R473	C-CARBON R	RN72K1J-103JE	1	435031034R1
R474	C-CARBON R	RN72K1J-103JE	1	435031034R1

R475	C-CARBON R	RN72K1J-103JE	1	435031034R1
R476	C-CARBON R	RN72K1J-103JE	1	435031034R1
R477	C-CARBON R	RN72K1J-103JE	1	435031034R1
R480	C-CARBON R	RN72K1J-152JE	1	435031524R1
R481	C-CARBON R	RN72K1J-152JE	1	435031524R1
R482	C-CARBON R	RN72K1J-152JE	1	435031524R1
R483	C-CARBON R	RN72K1J-152JE	1	435031524R1
R484	C-CARBON R	RN72K1J-152JE	1	435031524R1
R485	C-CARBON R	RN72K1J-152JE	1	435031524R1
R486	C-CARBON R	RN72K1J-152JE	1	435031524R1
R487	C-CARBON R	RN72K1J-152JE	1	435031524R1
R490	C-CARBON R	RN72K1J-223JE	1	435032234R1
R491	C-CARBON R	RN72K1J-223JE	1	435032234R1
R492	C-CARBON R	RN72K1J-223JE	1	435032234R1
R493	C-CARBON R	RN72K1J-223JE	1	435032234R1
R494	C-CARBON R	RN72K1J-223JE	1	435032234R1
R495	C-CARBON R	RN72K1J-223JE	1	435032234R1
R496	C-CARBON R	RN72K1J-223JE	1	435032234R1
R497	C-CARBON R	RN72K1J-223JE	1	435032234R1
R500	C-CARBON R	RN72K1J-223JE	1	435032234R1
R501	C-CARBON R	RN72K1J-223JE	1	435032234R1
R502	C-CARBON R	RN72K1J-223JE	1	435032234R1
R503	C-CARBON R	RN72K1J-223JE	1	435032234R1
R504	C-CARBON R	RN72K1J-223JE	1	435032234R1
R505	C-CARBON R	RN72K1J-223JE	1	435032234R1
R506	C-CARBON R	RN72K1J-223JE	1	435032234R1
R507	C-CARBON R	RN72K1J-223JE	1	435032234R1
R510	C-CARBON R	RN72K1J-223JE	1	435032234R1
R511	C-CARBON R	RN72K1J-223JE	1	435032234R1
R512	C-CARBON R	RN72K1J-223JE	1	435032234R1
R513	C-CARBON R	RN72K1J-223JE	1	435032234R1
R514	C-CARBON R	RN72K1J-223JE	1	435032234R1
R515	C-CARBON R	RN72K1J-223JE	1	435032234R1
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R520	C-CARBON R	RN72K1J-223JE	1	435032234R1
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R522	C-CARBON R	RN72K1J-223JE	1	435032234R1
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R526	C-CARBON R	RN72K1J-223JE	1	435032234R1
R527	C-CARBON R	RN72K1J-223JE	1	435032234R1
R530	C-CARBON R	RN72K1J-152JE	1	435031524R1
R531	C-CARBON R	RN72K1J-152JE	1	435031524R1

R532	C-CARBON R	RN72K1J-152JE	1	435031524R1
R533	C-CARBON R	RN72K1J-152JE	1	435031524R1
R534	C-CARBON R	RN72K1J-152JE	1	435031524R1
R535	C-CARBON R	RN72K1J-152JE	1	435031524R1
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R540	C-CARBON R	RN72K1J-152JE	1	435031524R1
R541	C-CARBON R	RN72K1J-152JE	1	435031524R1
R542	C-CARBON R	RN72K1J-152JE	1	435031524R1
R543	C-CARBON R	RN72K1J-152JE	1	435031524R1
R544	C-CARBON R	RN72K1J-152JE	1	435031524R1
R545	C-CARBON R	RN72K1J-152JE	1	435031524R1
R546	C-CARBON R	RN72K1J-152JE	1	435031524R1
R547	C-CARBON R	RN72K1J-152JE	1	435031524R1
R551	METAL R	RNU1/2WCJ-0.47	1	453534794T
R555	METAL O R	RS1/2WBJ-15	1	443521504T
R556	METAL O R	RS1/2WBJ-15	1	443521504T
R557	METAL O R	RS1/2WBJ-22	1	443522204T
R558	METAL O R	RS1/2WBJ-22	1	443522204T
R570	C-CARBON R	RN72K1J-681JE	1	435036814R1
R571	C-CARBON R	RN72K1J-681JE	1	435036814R1
R572	C-CARBON R	RN72K1J-681JE	1	435036814R1
R573	C-CARBON R	RN72K1J-681JE	1	435036814R1
R574	C-CARBON R	RN72K1J-681JE	1	435036814R1
R575	C-CARBON R	RN72K1J-681JE	1	435036814R1
R576	C-CARBON R	RN72K1J-681JE	1	435036814R1
R577	C-CARBON R	RN72K1J-681JE	1	435036814R1
R580	C-CARBON R	RN72K1J-681JE	1	435036814R1
R581	C-CARBON R	RN72K1J-681JE	1	435036814R1
R582	C-CARBON R	RN72K1J-681JE	1	435036814R1
R583	C-CARBON R	RN72K1J-681JE	1	435036814R1
R584	C-CARBON R	RN72K1J-681JE	1	435036814R1
R585	C-CARBON R	RN72K1J-681JE	1	435036814R1
R586	C-CARBON R	RN72K1J-681JE	1	435036814R1
R587	C-CARBON R	RN72K1J-681JE	1	435036814R1
R601	C-CARBON R	RN72K1J-221JE	1	435032214R1
R602	C-CARBON R	RN72K1J-103JE	1	435031034R1
R603	C-CARBON R	RN72K1J-221JE	1	435032214R1
R604	C-CARBON R	RN72K1J-103JE	1	435031034R1
R605	C-CARBON R	RN72K1J-221JE	1	435032214R1
R606	C-CARBON R	RN72K1J-103JE	1	435031034R1
R607	C-CARBON R	RN72K1J-221JE	1	435032214R1
R608	C-CARBON R	RN72K1J-221JE	1	435032214R1
R609	C-CARBON R	RN72K1J-221JE	1	435032214R1
R610	C-CARBON R	RN72K1J-221JE	1	435032214R1

R611	C-CARBON R	RN72K1J-103JE	1	435031034R1
R612	C-CARBON R	RN72K1J-221JE	1	435032214R1
R613	C-CARBON R	RN72K1J-221JE	1	435032214R1
R614	C-CARBON R	RN72K1J-221JE	1	435032214R1
R615	C-CARBON R	RN72K1J-103JE	1	435031034R1
R616	C-CARBON R	RN72K1J-102JE	1	435031024R1
R617	C-CARBON R	RN72K1J-103JE	1	435031034R1
R618	C-CARBON R	RN72K1J-221JE	1	435032214R1
R619	C-CARBON R	RN72K1J-473JE	1	435034734R1
R620	C-CARBON R	RN72K1J-103JE	1	435031034R1
R621	C-CARBON R	RN72K1J-105JE	1	435031054R1
R622	C-CARBON R	RN72K1J-103JE	1	435031034R1
R623	C-CARBON R	RN72K1J-221JE	1	435032214R1
R624	C-CARBON R	RN72K1J-103JE	1	435031034R1
R625	C-CARBON R	RN72K1J-221JE	1	435032214R1
R626	C-CARBON R	RN72K1J-103JE	1	435031034R1
R627	C-CARBON R	RN72K1J-221JE	1	435032214R1
R628	C-CARBON R	RN72K1J-221JE	1	435032214R1
R629	C-CARBON R	RN72K1J-221JE	1	435032214R1
R630	C-CARBON R	RN72K1J-103JE	1	435031034R1
R631	C-CARBON R	RN72K1J-221JE	1	435032214R1
R632	C-CARBON R	RN72K1J-221JE	1	435032214R1
R633	C-CARBON R	RN72K1J-103JE	1	435031034R1
R634	C-CARBON R	RN72K1J-221JE	1	435032214R1
R635	C-CARBON R	RN72K1J-103JE	1	435031034R1
R636	C-CARBON R	RN72K1J-221JE	1	435032214R1
R637	C-CARBON R	RN72K1J-103JE	1	435031034R1
R638	C-CARBON R	RN72K1J-221JE	1	435032214R1
R639	C-CARBON R	RN72K1J-103JE	1	435031034R1
R640	C-CARBON R	RN72K1J-470JE	1	435034704R1
R641	C-CARBON R	RN72K1J-222JE	1	435032224R1
R642	C-CARBON R	RN72K1J-470JE	1	435034704R1
R643	C-CARBON R	RN72K1J-222JE	1	435032224R1
R644	C-CARBON R	RN72K1J-470JE	1	435034704R1
R645	C-CARBON R	RN72K1J-470JE	1	435034704R1
R646	C-CARBON R	RN72K1J-103JE	1	435031034R1
R647	C-CARBON R	RN72K1J-470JE	1	435034704R1
R648	C-CARBON R	RN72K1J-470JE	1	435034704R1
R649	C-CARBON R	RN72K1J-221JE	1	435032214R1
R650	C-CARBON R	RN72K1J-221JE	1	435032214R1
R651	C-CARBON R	RN72K1J-103JE	1	435031034R1
R652	C-CARBON R	RN72K1J-221JE	1	435032214R1
R653	C-CARBON R	RN72K1J-221JE	1	435032214R1
R654	C-CARBON R	RN72K1J-221JE	1	435032214R1
R655	C-CARBON R	RN72K1J-221JE	1	435032214R1

R656	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R657	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R658	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R659	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R660	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R661	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R662	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R663	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R664	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R665	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R666	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R667	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R668	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R669	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R670	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R671	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R672	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R673	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R674	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R675	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R676	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R677	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R678	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R679	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R680	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R681	C-CARBON R	RN72K1J-103JE	1	435031034R1	<PA>
R682	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R683	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R684	C-CARBON R	RN72K1J-472JE	1	435034724R1	
R685	C-CARBON R	RN72K1J-000JE	1	435030004R1	<DC>
R686	C-CARBON R	RN72K1J-333JE	1	435033334R1	
R687	C-CARBON R	RN72K1J-333JE	1	435033334R1	
R688	C-CARBON R	RN72K1J-333JE	1	435033334R1	
R689	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R690	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R691	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R692	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R693	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R694	C-CARBON R	RN72K1J-273JE	1	435032734R1	
R695	C-CARBON R	RN72K1J-273JE	1	435032734R1	
R697	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R698	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R699	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R700	C-CARBON R	RN72K1J-221JE	1	435032214R1	
R701	C-CARBON R	RN72K1J-221JE	1	435032214R1	

R702	C-CARBON R	RN72K1J-221JE	1	435032214R1
R703	C-CARBON R	RN72K1J-221JE	1	435032214R1
R704	C-CARBON R	RN72K1J-221JE	1	435032214R1
R705	C-CARBON R	RN72K1J-221JE	1	435032214R1
R706	C-CARBON R	RN72K1J-103JE	1	435031034R1
R707	C-CARBON R	RN72K1J-221JE	1	435032214R1
R708	C-CARBON R	RN72K1J-221JE	1	435032214R1
R709	C-CARBON R	RN72K1J-221JE	1	435032214R1
R710	C-CARBON R	RN72K1J-103JE	1	435031034R1
R711	C-CARBON R	RN72K1J-470JE	1	435034704R1
R712	C-CARBON R	RN72K1J-221JE	1	435032214R1
R713	C-CARBON R	RN72K1J-103JE	1	435031034R1
R714	C-CARBON R	RN72K1J-472JE	1	435034724R1
R715	C-CARBON R	RN72K1J-472JE	1	435034724R1
R716	C-CARBON R	RN72K1J-472JE	1	435034724R1
R717	C-CARBON R	RN72K1J-472JE	1	435034724R1
R718	C-CARBON R	RN72K1J-472JE	1	435034724R1
R719	C-CARBON R	RN72K1J-272JE	1	435032724R1
R720	C-CARBON R	RN72K1J-472JE	1	435034724R1
R721	C-CARBON R	RN72K1J-272JE	1	435032724R1
R722	C-CARBON R	RN72K1J-472JE	1	435034724R1
R723	C-CARBON R	RN72K1J-272JE	1	435032724R1
R724	C-CARBON R	RN72K1J-472JE	1	435034724R1
R725	C-CARBON R	RN72K1J-272JE	1	435032724R1
R726	C-CARBON R	RN72K1J-103JE	1	435031034R1
R727	C-CARBON R	RN72K1J-102JE	1	435031024R1
R729	C-CARBON R	RN72K1J-101JE	1	435031014R1
R730	C-CARBON R	RN72K1J-101JE	1	435031014R1
R731	C-CARBON R	RN72K1J-101JE	1	435031014R1
R732	C-CARBON R	RN72K1J-101JE	1	435031014R1
R733	C-CARBON R	RN72K1J-470JE	1	435034704R1
R734	C-CARBON R	RN72K1J-470JE	1	435034704R1
R735	C-CARBON R	RN72K1J-104JE	1	435031044R1
R736	C-CARBON R	RN72K1J-104JE	1	435031044R1
R737	C-CARBON R	RN72K1J-221JE	1	435032214R1
R738	C-CARBON R	RN72K1J-221JE	1	435032214R1
R739	C-CARBON R	RN72K1J-221JE	1	435032214R1
R740	C-CARBON R	RN72K1J-221JE	1	435032214R1
R741	C-CARBON R	RN72K1J-221JE	1	435032214R1
R742	C-CARBON R	RN72K1J-221JE	1	435032214R1
R743	C-CARBON R	RN72K1J-221JE	1	435032214R1
R752	C-CARBON R	RN72K1J-224JE	1	435032244R1
R754	C-CARBON R	RN72K1J-103JE	1	435031034R1
R755	C-CARBON R	RN72K1J-222JE	1	435032224R1
R756	C-CARBON R	RN72K1J-103JE	1	435031034R1

R757	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R758	C-CARBON R	RN72K1J-103JE	1	435031034R1	
R759	C-CARBON R	RN72K1J-222JE	1	435032224R1	
R763	C-CARBON R	RN72K1J-102JE	1	435031024R1	
R780	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R781	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R782	C-CARBON R	RN72K1J-331JE	1	435033314R1	
R783	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R784	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R785	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R786	C-CARBON R	RN72K1J-470JE	1	435034704R1	
R790	C-CARBON R	RN72K1J-000JE	1	435030004R1	
JL601A	WIRE TRAP	NPLG-9P592	1	25055630	
JL601B	WIRE HOL	NSCT-9P880	1	25051093	
JL703B	WIRE TRAP	NPLG-3P586	1	25055624	
JL7452A	SOCKET	NSCT-5P110	1	25050282	
JL8001A	WIRE HOL	NSCT-4P875	1	25051088	
JL961A	WIRE HOL	NSCT-5P876	1	25051089	
JL961B	WIRE HOL	NSCT-5P876	1	25051089	
P101	PIN JACK	NPJ-2PDO486	1	25045689	
P102	ST JACK	LGY2502-0200FC	1	25045696	
P2004A	PLUG	NPLG-8P0963	1	25056013	
P2005A	PLUG	NPLG-10P0965	1	25056015	
P2006A	SOCKET AS	NSAS-12P1641	1	200C4391210UL	
P3101B	SOCKET	NSCT-15P2195	1	25052298	
P3102B	SOCKET	NSCT-8P2188	1	25052291	
P3103B	SOCKET	NSCT-17P2197	1	25052300	
P3104B	SOCKET	NSCT-17P2197	1	25052300	
P3105B	SOCKET	NSCT-17P2197	1	25052300	
P601A	SOCKET	NSCT-35P2232	1	25052335	
P601B	SOCKET	NSCT-35P2232	1	25052335	
P650	TRM(SCREW)	NEJITANSI M3	1	25065425	
P651	TRM(SCREW)	NEJITANSI M3	1	25065425	
P652	TRM(SCREW)	NEJITANSI M3	1	25065425	
P655	TRM	NTM-1P232(M1700)	1	25060301	
P701A	SOCKET	NSCT-13P2106	1	25052209	
P702	SOCKET	NSCT-9P2427	1	25052530	
P710A	SOCKET	NSCT-17P2110	1	25052213	<DC>
P7534A	SOCKET	NSCT-40P2274	1	25052377	
P8003A	PLUG	NPLG-18P763	1	25055807	
P954A	PLUG	IMSA-9115B-15	1	25056345	
P959A	PLUG	IMSA-9115B-18	1	25056348	

U16 **POWER SUPPLY PC BOARD (NAPS-8999-1H/-1Y)**
U17 **POWER SUPPLY PC BOARD (NAPS-9000-1H/-1Y)**

U18 SP TERMINAL PC BOARD (NAETC-9001-1H/-1Y)
U19 SP TERMINAL PC BOARD (NAETC-9002-1H/-1Y)
U20 DRIVER AMPLIFIER PC BOARD (NAAF-9003-1H/-1Y)
U24 INLET PC BOARD (NAETC-9006-1H/1Y)

CIRCUIT NO.	NAME	DESCRIPTION	Q'TY	PART NO(SN)	REMARKS
U5501	REMO SENS	GP1UM281XKVFH=16MM	1	241361	
Q5000	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5000 or	TR	2SC1845-E	(1)	2211733T	
Q5001	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5001 or	TR	2SC1845-E	(1)	2211733T	
Q5002	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5002 or	TR	2SC1845-E	(1)	2211733T	
Q5003	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5003 or	TR	2SC1845-E	(1)	2211733T	
Q5004	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5004 or	TR	2SC1845-E	(1)	2211733T	
Q5005	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5005 or	TR	2SC1845-E	(1)	2211733T	
Q5006	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5006 or	TR	2SC1845-E	(1)	2211733T	
Q5010	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5010 or	TR	2SC1845-E	(1)	2211733T	
Q5011	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5011 or	TR	2SC1845-E	(1)	2211733T	
Q5012	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5012 or	TR	2SC1845-E	(1)	2211733T	
Q5013	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5013 or	TR	2SC1845-E	(1)	2211733T	
Q5014	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5014 or	TR	2SC1845-E	(1)	2211733T	
Q5015	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5015 or	TR	2SC1845-E	(1)	2211733T	
Q5016	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5016 or	TR	2SC1845-E	(1)	2211733T	
Q5030	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5031	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5032	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5033	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5034	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5035	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5036	TR	2SA949-Y(TPE6_F)	1	2211354T	
Q5040	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5041	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5042	TR	2SC2229-Y(TPE6_F)	1	2211634T	

Q5043	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5044	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5045	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5046	TR	2SC2229-Y(TPE6_F)	1	2211634T	
Q5050	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5050 or	TR	2SC1845-E	(1)	2211733T	
Q5051	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5051 or	TR	2SC1845-E	(1)	2211733T	
Q5052	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5052 or	TR	2SC1845-E	(1)	2211733T	
Q5053	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5053 or	TR	2SC1845-E	(1)	2211733T	
Q5054	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5054 or	TR	2SC1845-E	(1)	2211733T	
Q5055	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5055 or	TR	2SC1845-E	(1)	2211733T	
Q5056	TR	2SC2240-BL(TPE2_F)	1	2211406T	
Q5056 or	TR	2SC1845-E	(1)	2211733T	
Q5501	IC	ICL3221ECVZ	1	22242268R2	
Q5502	TR	2SB1240-R	1	2213794T	
Q5503	TR	2SB1240-R	1	2213794T	
Q5504	TR	2SB1240-R	1	2213794T	
Q5505	TR	KRC102M	1	2215960T	
Q5505 or	TR	DTC114ES	(1)	2213290T	
Q5506	TR	KRC102M	1	2215960T	
Q5506 or	TR	DTC114ES	(1)	2213290T	
Q5507	TR	KRC102M	1	2215960T	
Q5507 or	TR	DTC114ES	(1)	2213290T	
Q5508	TR	KRA102M	1	2215770T	
Q5508 or	TR	DTA114ES	(1)	2213510T	
Q5509	PHT CP	TLP421	1	24120103	
Q5509 or	PHT CP	PC817X	(1)	24120080	
Q5510	PHT CP	TLP421	1	24120103	
Q5510 or	PHT CP	PC817X	(1)	24120080	
Q912	TR	2SC1740S-R	1	2213284T	
Q912 or	TR	2SC1740S-S	(1)	2213285T	
Q912 or	TR	2SC2458-GR	(1)	2212115T	
Q912 or	TR	KTC3199-GR	(1)	2215864T	
Q951	IC	7805FA(NJM7805FA)	1	222780054JRC	
Q951 or	IC	7805HF(MPC7805HF)	(1)	222780054NEC	
Q951A	SCREW	3P+10FN(3BC)	1	82143010GR	
Q951D	HEAT SINK	RAD-183	1	27160526	
Q951F	RETAINER	(U)	1	27142012	
Q951G	SCREW	3P+10FN(3BC)	1	82143010GR	
Q952	IC	S-812C53AY-Z-G	1	22242271T	<DC>

Q953	IC	7812HF(TA7812S)	1	222780124TOS	
Q953A	SCREW	3P+10FN(3BC)	1	82143010GR	
Q954	TR	2SA965-Y(TPE6_F)	1	2211644T	
Q955	TR	2SD1858-R	1	2213214T	
Q956	TR	KRC102M	1	2215960T	
Q956 or	TR	DTC114ES	(1)	2213290T	
Q957	TR	2SA1015-GR	1	2211455T	
Q958	TR	KRC102M	1	2215960T	
Q958 or	TR	DTC114ES	(1)	2213290T	
Q959	TR	2SA1930(ONK_Q)	1	2203000	<DC>
Q959A	SCREW	3P+10FN(3BC)	1	82143010GR	<DC>
Q960	TR	2SC1740S-R	1	2213284T	
Q960 or	TR	2SC1740S-S	(1)	2213285T	
Q960 or	TR	2SC2458-GR	(1)	2212115T	
Q960 or	TR	KTC3199-GR	(1)	2215864T	
D5000	ZENER D	DZ-5.6BSB	1	224850562T	
D5000 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5001	ZENER D	DZ-5.6BSB	1	224850562T	
D5001 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5002	ZENER D	DZ-5.6BSB	1	224850562T	
D5002 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5003	ZENER D	DZ-5.6BSB	1	224850562T	
D5003 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5004	ZENER D	DZ-5.6BSB	1	224850562T	
D5004 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5005	ZENER D	DZ-5.6BSB	1	224850562T	
D5005 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5006	ZENER D	DZ-5.6BSB	1	224850562T	
D5006 or	ZENER D	MTZJ5.6B	(1)	224470562T	
D5501	DIODE	1SS133(DS)	1	223280T	
D5501 or	DIODE	1SS133	(1)	223163T	
D5502	DIODE	1SS133(DS)	1	223280T	
D5502 or	DIODE	1SS133	(1)	223163T	
D5503	DIODE	1SS133(DS)	1	223280T	
D5503 or	DIODE	1SS133	(1)	223163T	
D5504	DIODE	1SS133(DS)	1	223280T	
D5504 or	DIODE	1SS133	(1)	223163T	
D5505	DIODE	1SS133(DS)	1	223280T	
D5505 or	DIODE	1SS133	(1)	223163T	
D5506	DIODE	1SS133(DS)	1	223280T	
D5506 or	DIODE	1SS133	(1)	223163T	
D5507	SPCF D	SIR-34ST3F	1	225456	
D5508	SPCF D	SIR-34ST3F	1	225456	
D6600	DIODE	1SS133(DS)	1	223280T	
D6600 or	DIODE	1SS133	(1)	223163T	

D6603	DIODE	1SS133(DS)	1	223280T
D6603 or	DIODE	1SS133	(1)	223163T
D6605	DIODE	1SS133(DS)	1	223280T
D6605 or	DIODE	1SS133	(1)	223163T
D6607	DIODE	1SS133(DS)	1	223280T
D6607 or	DIODE	1SS133	(1)	223163T
D901	DIODE	1SS133(DS)	1	223280T
D901 or	DIODE	1SS133	(1)	223163T
D902	DIODE	1SS133(DS)	1	223280T
D902 or	DIODE	1SS133	(1)	223163T
D903	DIODE	1SS133(DS)	1	223280T
D903 or	DIODE	1SS133	(1)	223163T
D904	DIODE	1SS133(DS)	1	223280T
D904 or	DIODE	1SS133	(1)	223163T
D905	DIODE	1SS133(DS)	1	223280T
D905 or	DIODE	1SS133	(1)	223163T
D906	DIODE	1SS133(DS)	1	223280T
D906 or	DIODE	1SS133	(1)	223163T
D907	DIODE	1SS133(DS)	1	223280T
D907 or	DIODE	1SS133	(1)	223163T
D908	DIODE	1SS133(DS)	1	223280T
D908 or	DIODE	1SS133	(1)	223163T
D909	DIODE	1SS133(DS)	1	223280T
D909 or	DIODE	1SS133	(1)	223163T
D910	ZENER D	DZ-5.6BSB	1	224850562T
D910 or	ZENER D	MTZJ5.6B	(1)	224470562T
D912	DIODE	1SS133(DS)	1	223280T
D912 or	DIODE	1SS133	(1)	223163T
D913	DIODE	1SS133(DS)	1	223280T
D913 or	DIODE	1SS133	(1)	223163T
D953	DIODE	D10XB60H	1	22380337
D953A	SCREW	3P+10FN(3BC)	1	82143010GR
D953B	HEAT SINK	RAD-183	1	27160526
D954	ZENER D	MTZJ8.2C	1	224470823T
D954 or	ZENER D	MTZ8.2C	(1)	224450823T
D956	DIODE	RL1N4003	1	22380260T
D956 or	DIODE	GP104003E	(1)	22380035T
D957	DIODE	RL1N4003	1	22380260T
D957 or	DIODE	GP104003E	(1)	22380035T
D958	ZENER D	DZ-33BSD	1	224853304T
D958 or	ZENER D	MTZJ33D	(1)	224473304T
D961	DIODE	RL1N4003	1	22380260T
D961 or	DIODE	GP104003E	(1)	22380035T
D962	DIODE	RL1N4003	1	22380260T
D962 or	DIODE	GP104003E	(1)	22380035T

D963	DIODE	RL1N4003	1	22380260T	
D963 or	DIODE	GP104003E	(1)	22380035T	
D964	DIODE	RL1N4003	1	22380260T	
D964 or	DIODE	GP104003E	(1)	22380035T	
D965	DIODE	RL1N4003	1	22380260T	
D965 or	DIODE	GP104003E	(1)	22380035T	
D966	DIODE	RL1N4003	1	22380260T	
D966 or	DIODE	GP104003E	(1)	22380035T	
D967	DIODE	1SS133(DS)	1	223280T	
D967 or	DIODE	1SS133	(1)	223163T	
D968	DIODE	1SS133(DS)	1	223280T	
D968 or	DIODE	1SS133	(1)	223163T	
D969	DIODE	1SS133(DS)	1	223280T	
D969 or	DIODE	1SS133	(1)	223163T	
D970	DIODE	1SS133(DS)	1	223280T	
D970 or	DIODE	1SS133	(1)	223163T	
D971	DIODE	1SS133(DS)	1	223280T	
D971 or	DIODE	1SS133	(1)	223163T	
D991	DIODE	1SS133(DS)	1	223280T	
D991 or	DIODE	1SS133	(1)	223163T	
D992	DIODE	1SS133(DS)	1	223280T	
D992 or	DIODE	1SS133	(1)	223163T	
T902	P TRANS	NPT-1520JQ	1	2301812	!,<DC>
T902	P TRANS	NPT-1520GQ	1	2301813	!,<PA>
L5501	CHOKE COIL	NCH-1452 022M	1	233454M022T	
L5501 or	CHOKE COIL	NCH-1561 022K	(1)	233526K022T	
L5502	CHOKE COIL	NCH-1452 022M	1	233454M022T	
L5502 or	CHOKE COIL	NCH-1561 022K	(1)	233526K022T	
L6600	S COIL	S-1.3C	1	231176S	<PA>
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C5000	TF C	ECQ-B50V-221K	1	374722215T	
C5001	TF C	ECQ-B50V-221K	1	374722215T	
C5002	TF C	ECQ-B50V-221K	1	374722215T	
C5003	TF C	ECQ-B50V-221K	1	374722215T	
C5004	TF C	ECQ-B50V-221K	1	374722215T	
C5005	TF C	ECQ-B50V-221K	1	374722215T	
C5006	TF C	ECQ-B50V-221K	1	374722215T	
C5010	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C5011	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
C5012	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	

C5013	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5014	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5015	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5016	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5020	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5021	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5022	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5023	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5024	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5025	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5026	UTSP C	CE04W50V-10M(UTSP)	1	397581007T
C5040	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5041	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5042	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5043	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5044	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5045	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5046	UTSP C	CE04W25V-220M(UTSP)	1	397552217T
C5050	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5051	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5052	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5053	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5054	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5055	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5056	UTSP C	CE04W50V 47M(UTSP)	1	397584707T
C5080	CERA C	CC45SL50V-040C	1	345020401T
C5081	CERA C	CC45SL50V-040C	1	345020401T
C5082	CERA C	CC45SL50V-040C	1	345020401T
C5083	CERA C	CC45SL50V-040C	1	345020401T
C5084	CERA C	CC45SL50V-040C	1	345020401T
C5085	CERA C	CC45SL50V-040C	1	345020401T
C5086	CERA C	CC45SL50V-040C	1	345020401T
C5090	TF C	ECQ-B50V-101K	1	374721015T
C5091	TF C	ECQ-B50V-101K	1	374721015T
C5092	TF C	ECQ-B50V-101K	1	374721015T
C5093	TF C	ECQ-B50V-101K	1	374721015T
C5094	TF C	ECQ-B50V-101K	1	374721015T
C5095	TF C	ECQ-B50V-101K	1	374721015T
C5096	TF C	ECQ-B50V-101K	1	374721015T
C5100	VR C	CE04W100V-10M(VR)	1	394691007T
C5101	VR C	CE04W100V-10M(VR)	1	394691007T
C5102	VR C	CE04W100V-10M(VR)	1	394691007T
C5103	VR C	CE04W100V-10M(VR)	1	394691007T
C5104	VR C	CE04W100V-10M(VR)	1	394691007T
C5105	VR C	CE04W100V-10M(VR)	1	394691007T

C5106	VR C	CE04W100V-10M(VR)	1	394691007T	
C5110	VR C	CE04W100V-10M(VR)	1	394691007T	
C5111	VR C	CE04W100V-10M(VR)	1	394691007T	
C5112	VR C	CE04W100V-10M(VR)	1	394691007T	
C5113	VR C	CE04W100V-10M(VR)	1	394691007T	
C5114	VR C	CE04W100V-10M(VR)	1	394691007T	
C5115	VR C	CE04W100V-10M(VR)	1	394691007T	
C5116	VR C	CE04W100V-10M(VR)	1	394691007T	
C5501	VR C	CE04W16V-100M(VR)	1	394641017T	
C5502	CERA C	CK45F50V-223Z	1	335622230T	
C5503	VR C	CE04W50V-1M(VR)	1	394680107T	
C5504	VR C	CE04W50V-1M(VR)	1	394680107T	
C5505	VR C	CE04W50V-1M(VR)	1	394680107T	
C5506	VR C	CE04W50V-1M(VR)	1	394680107T	
C5507	CERA C	CK45F50V-223Z	1	335622230T	
C5508	TF C	ECQ-B50V-102J	1	374721024T	
C5509	TF C	ECQ-B50V-102J	1	374721024T	
C5510	TF C	ECQ-B50V-102J	1	374721024T	
C5511	VR C	CE04W16V-100M(VR)	1	394641017T	
C5512	VR C	CE04W16V-100M(VR)	1	394641017T	
C5513	CERA C	CK45F50V-223Z	1	335622230T	
C5514	CERA C	CK45B50V-102K	1	335321025T	
C5515	CERA C	CK45F50V-103Z	1	335621030T	
C5516	CERA C	CK45F50V-103Z	1	335621030T	
C6600	CERA C	CK45F50V-103Z	1	335621030T	
C6602	CERA C	CK45F50V-103Z	1	335621030T	
C6603	CERA C	CK45F50V-103Z	1	335621030T	
C6605	CERA C	CK45F50V-103Z	1	335621030T	
C6607	CERA C	CK45F50V-103Z	1	335621030T	
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C902	TF C	ECQ-B50V-223J	1	374722234T	
C903	VR C	CE04W35V-2200M(VR)	1	394662227S	
C904	VR C	CE04W50V-100M(VR)	1	394681017T	
C906	VR C	CE04W50V-3.3M(VR)	1	394680337T	
C912	IS C	RE275V-103M	1	3500196S	
C912 or	IS C	LE103-C3.5	(1)	3800042S	
C929	TF C	ECQ-B50V-102J	1	374721024T	
C932	TF C	ECQ-B50V-103J	1	374721034T	
C951	TF C	ECQ-V50V-104J	1	374721044T	
C952	TF C	ECQ-V50V-104J	1	374721044T	
C954	VR C	CE04W16V-10000M(VR)	1	394641037S	
C955	VR C	CE04W16V-3300M(VR)	1	394643327S	
C956	VR C	CE04W50V-10M(VR)	1	394681007T	
C957	VR C	CE04W16V-100M(VR)	1	394641017T	
C958	VR C	CE04W50V-10M(VR)	1	394681007T	<DC>
C959	VR C	CE04W16V-100M(VR)	1	394641017T	<DC>
C960	VR C	CE04W50V-10M(VR)	1	394681007T	
C961	VR C	CE04W50V-10M(VR)	1	394681007T	
C962	TF C	ECQ-V50V-334J	1	374723344T	
C963	TF C	ECQ-V50V-334J	1	374723344T	
C964	TF C	ECQ-V50V-104J	1	374721044T	
C965	VR C	CE04W35V-3300M(VR)	1	394663327S	
C966	VR C	CE04W35V-1000M(VR)	1	394661027S	
C967	VR C	CE04W50V-220M(VR)	1	394682217T	
C968	VR C	CE04W63V-220M(VR)	1	394672217T	
C969	VR C	CE04W50V-47M(VR)	1	394684707T	
C970	CERA C	CK45F50V-223Z	1	335622230T	
C972	TF C	ECQ-V50V-334J	1	374723344T	
C973	VR C	CE04W16V-470M(VR)	1	394644717T	
C974	VR C	CE04W50V-10M(VR)	1	394681007T	
C991	TF C	ECQ-B50V-222J	1	374722224T	
R5000	CARBON R	R16J-1K	1	417341024T	
R5001	CARBON R	R16J-1K	1	417341024T	
R5002	CARBON R	R16J-1K	1	417341024T	
R5003	CARBON R	R16J-1K	1	417341024T	
R5004	CARBON R	R16J-1K	1	417341024T	
R5005	CARBON R	R16J-1K	1	417341024T	
R5006	CARBON R	R16J-1K	1	417341024T	
R5010	CARBON R	R16J-56K	1	417345634T	
R5011	CARBON R	R16J-56K	1	417345634T	
R5012	CARBON R	R16J-56K	1	417345634T	
R5013	CARBON R	R16J-56K	1	417345634T	
R5014	CARBON R	R16J-56K	1	417345634T	

R5015	CARBON R	R16J-56K	1	417345634T
R5016	CARBON R	R16J-56K	1	417345634T
R5020	CARBON R	R16J-330	1	417343314T
R5021	CARBON R	R16J-330	1	417343314T
R5022	CARBON R	R16J-330	1	417343314T
R5023	CARBON R	R16J-330	1	417343314T
R5024	CARBON R	R16J-330	1	417343314T
R5025	CARBON R	R16J-330	1	417343314T
R5026	CARBON R	R16J-330	1	417343314T
R5030	CARBON R	R16J-120K	1	417341244T
R5031	CARBON R	R16J-120K	1	417341244T
R5032	CARBON R	R16J-120K	1	417341244T
R5033	CARBON R	R16J-120K	1	417341244T
R5034	CARBON R	R16J-120K	1	417341244T
R5035	CARBON R	R16J-120K	1	417341244T
R5036	CARBON R	R16J-120K	1	417341244T
R5040	CARBON R	R16J-2.2K	1	417342224T
R5041	CARBON R	R16J-2.2K	1	417342224T
R5042	CARBON R	R16J-2.2K	1	417342224T
R5043	CARBON R	R16J-2.2K	1	417342224T
R5044	CARBON R	R16J-2.2K	1	417342224T
R5045	CARBON R	R16J-2.2K	1	417342224T
R5046	CARBON R	R16J-2.2K	1	417342224T
R5050	CARBON R	R16J-4.7K	1	417344724T
R5051	CARBON R	R16J-4.7K	1	417344724T
R5052	CARBON R	R16J-4.7K	1	417344724T
R5053	CARBON R	R16J-4.7K	1	417344724T
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R5056	CARBON R	R16J-4.7K	1	417344724T
R5060	CARBON R	R16J-1.2K	1	417341224T
R5061	CARBON R	R16J-1.2K	1	417341224T
R5062	CARBON R	R16J-1.2K	1	417341224T
R5063	CARBON R	R16J-1.2K	1	417341224T
R5064	CARBON R	R16J-1.2K	1	417341224T
R5065	CARBON R	R16J-1.2K	1	417341224T
R5066	CARBON R	R16J-1.2K	1	417341224T
R5080	CARBON R	R16J-470	1	417344714T
R5081	CARBON R	R16J-470	1	417344714T
R5082	CARBON R	R16J-470	1	417344714T
R5083	CARBON R	R16J-470	1	417344714T
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R5085	CARBON R	R16J-470	1	417344714T
R5086	CARBON R	R16J-470	1	417344714T
R5090	CARBON R	R16J-100K	1	417341044T

R5091	CARBON R	R16J-100K	1	417341044T
R5092	CARBON R	R16J-100K	1	417341044T
R5093	CARBON R	R16J-100K	1	417341044T
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R5116	CARBON R	R16J-1K	1	417341024T
R5130	CARBON R	R16J-22K	1	417342234T
R5131	CARBON R	R16J-22K	1	417342234T
R5132	CARBON R	R16J-22K	1	417342234T
R5133	CARBON R	R16J-22K	1	417342234T
R5134	CARBON R	R16J-22K	1	417342234T
R5135	CARBON R	R16J-22K	1	417342234T
R5136	CARBON R	R16J-22K	1	417342234T
R5160	NF CARBON R	R25J-100	1	415471014T
R5161	NF CARBON R	R25J-100	1	415471014T
R5162	NF CARBON R	R25J-100	1	415471014T
R5163	NF CARBON R	R25J-120	1	415471214T
R5164	NF CARBON R	R25J-120	1	415471214T
R5165	NF CARBON R	R25J-120	1	415471214T
R5166	NF CARBON R	R25J-120	1	415471214T
R5170	NF CARBON R	R25J-100	1	415471014T
R5171	NF CARBON R	R25J-100	1	415471014T
R5172	NF CARBON R	R25J-100	1	415471014T
R5173	NF CARBON R	R25J-120	1	415471214T
R5174	NF CARBON R	R25J-120	1	415471214T
R5175	NF CARBON R	R25J-120	1	415471214T
R5176	NF CARBON R	R25J-120	1	415471214T
R5180	NF CARBON R	R25J-10	1	415471004T
R5181	NF CARBON R	R25J-10	1	415471004T
R5182	NF CARBON R	R25J-10	1	415471004T
R5183	NF CARBON R	R25J-10	1	415471004T

R5184	NF CARBON R	R25J-10	1	415471004T
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R5186	NF CARBON R	R25J-10	1	415471004T
R5190	NF CARBON R	R25J-10	1	415471004T
R5191	NF CARBON R	R25J-10	1	415471004T
R5192	NF CARBON R	R25J-10	1	415471004T
R5193	NF CARBON R	R25J-10	1	415471004T
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R5195	NF CARBON R	R25J-10	1	415471004T
R5196	NF CARBON R	R25J-10	1	415471004T
R5200	CARBON R	R16J-22K	1	417342234T
R5201	CARBON R	R16J-22K	1	417342234T
R5202	CARBON R	R16J-22K	1	417342234T
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R5206	CARBON R	R16J-22K	1	417342234T
R5230	CARBON R	R16J-120K	1	417341244T
R5231	CARBON R	R16J-120K	1	417341244T
R5232	CARBON R	R16J-120K	1	417341244T
R5233	CARBON R	R16J-120K	1	417341244T
R5234	CARBON R	R16J-120K	1	417341244T
R5235	CARBON R	R16J-120K	1	417341244T
R5236	CARBON R	R16J-120K	1	417341244T
R5502	CARBON R	R16J-330	1	417343314T
R5503	CARBON R	R16J-330	1	417343314T
R5504	CARBON R	R16J-10K	1	417341034T
R5505	CARBON R	R16J-10K	1	417341034T
R5506	CARBON R	R16J-10K	1	417341034T
R5507	CARBON R	R16J-330	1	417343314T
R5508	CARBON R	R16J-330	1	417343314T
R5509	CARBON R	R16J-100	1	417341014T
R5510	CARBON R	R16J-100	1	417341014T
R5511	CARBON R	R16J-3.9	1	417340394T
R5512	CARBON R	R16J-3.9	1	417340394T
R5513	CARBON R	R16J-3.9	1	417340394T
R5514	CARBON R	R16J-1K	1	417341024T
R5515	CARBON R	R16J-1K	1	417341024T
R5516	CARBON R	R16J-1K	1	417341024T
R5517	CARBON R	R16J-220K	1	417342244T
R5518	CARBON R	R16J-220K	1	417342244T
R5519	CARBON R	R16J-220K	1	417342244T
R5520	METAL O R	RS1/2WBJ-100	1	443521014T
R5521	CARBON R	R16J-100	1	417341014T
R5522	CARBON R	R16J-10K	1	417341034T

R5524	CARBON R	R16J-1K	1	417341024T	
R5525	CARBON R	R16J-100	1	417341014T	
R5526	CARBON R	R16J-100	1	417341014T	
R5527	CARBON R	R16J-100	1	417341014T	
R6600	CARBON R	R16J-22	1	417342204T	<PA>
R6601	CARBON R	R16J-22	1	417342204T	<PA>
R6602	CARBON R	R16J-22	1	417342204T	<PA>
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R6615	CARBON R	R16J-22	1	417342204T	<PA>
R6616	CARBON R	R16J-22	1	417342204T	<PA>
R6690	METAL R	RNU1/2WCJ-0.22	1	453532294T	
R909	CARBON R	R16J-100K	1	417341044T	
R913	CARBON R	R16J-1K	1	417341024T	
R914	CARBON R	R16J-100K	1	417341044T	
R946	METAL O R	RS1/2WBJ-10	1	443521004T	
R953	METAL R	RNU1WCJ-0.22	1	453632294T	
R955	METAL R	RNU1/2WCJ-2.2	1	453530224T	
R956	METAL R	RNU1/4WJ-33	1	4500185T	<DC>
R957	CARBON R	R16J-2.2K	1	417342224T	
R958	CARBON R	R16J-1K	1	417341024T	
R959	CARBON R	R16J-2.2K	1	417342224T	
R961	METAL R	RNU1/2WCJ-4.7	1	453530474T	
R962	METAL R	RNU1/2WCJ-2.2	1	453530224T	
R963	METAL O R	RS1/2WBJ-22	1	443522204T	
R964	CARBON R	R16J-15K	1	417341534T	
R965	CARBON R	R16J-33K	1	417343334T	
R966	METAL R	RNU1/2WCJ-0.22	1	453532294T	<DC>
R967	METAL R	RNU1WCJ-1.5	1	453630154T	
R969	METAL R	RNU1/2WCJ-0.22	1	453532294T	
R970	METAL R	RNU1WCJ-2.2	1	453630224T	
R971	METAL R	RNU1/2WCJ-2.2	1	453530224T	
F901A	FUSE HOL	NSCT-1P2031	1	25052133T	
F901B	FUSE HOL	NSCT-1P2031	1	25052133T	
F901C	LABEL	T6.3AL/250V	1	29361681	<PA>
F903A	FUSE HOL	NSCT-1P2031	1	25052133T	
F903B	FUSE HOL	NSCT-1P2031	1	25052133T	
F903C	LABEL	T2.5AL250V	1	29361747	<PA>

F931A	FUSE HOL	NSCT-1P2031	1	25052133T	
F931B	FUSE HOL	NSCT-1P2031	1	25052133T	
F932A	FUSE HOL	NSCT-1P2031	1	25052133T	
F932B	FUSE HOL	NSCT-1P2031	1	25052133T	
F951A	FUSE HOL	NSCT-1P2031	1	25052133T	
F951B	FUSE HOL	NSCT-1P2031	1	25052133T	
F952A	FUSE HOL	NSCT-1P2031	1	25052133T	
F952B	FUSE HOL	NSCT-1P2031	1	25052133T	
JL2006B	SOCKET	NSCT-5P97	1	25050269	
JL6006A	WIRE HOL	NSCT-5P896	1	25051109	
JL6600B	SOCKET	NSCT-7P99	1	25050271	
JL6602A	WIRE HOL	NSCT-4P895	1	25051108	
JL6602B	SOCKET	NSCT-4P96	1	25050268	
JL6603B	SOCKET	NSCT-9P101	1	25050273	
JL911A	WIRE HOL	NSCT-6P877	1	25051090	
JL911B	WIRE TRAP	NPLG-6P589	1	25055627	
JL957B	SOCKET	NSCT-5P97	1	25050269	
P5004A	PLUG	NPLG-13P141	1	25055157	
P5019	TRM(SCREW)	NEJITANSI M3	1	25065425	
P5501	SOCKET	7906-09FHA	1	25053103	
P5501 or	SOCKET	NSCT-9P2277	(1)	25052379	
P5502	PIN JACK	NPJ-1PDP526	1	25045738	
P5503	PIN JACK	NPJ-2PDBL249	1	25045424	
P5505	ST JACK	HSJ1002-01-1020	1	25045647	
P5506	ST JACK	HSJ1002-01-1020	1	25045647	
P5507	ST JACK	HSJ1002-01-1020	1	25045647	
P6000A	SOCKET	NSCT-5P2185	1	25052288	
P6001A	SOCKET	NSCT-5P2185	1	25052288	
P6002A	SOCKET	NSCT-5P2185	1	25052288	
P6003A	SOCKET	NSCT-5P2185	1	25052288	
P6004A	SOCKET	NSCT-5P2185	1	25052288	
P6005A	SOCKET	NSCT-5P2185	1	25052288	
P6011B	RETAINER	(BUS-U)	1	27141859	
P6600	TRM	NTM-8PDMN368	1	25060439	<DC>
P6600	TRM	NTM-8PDMN375	1	25060446	<PA>
P6602	TRM	NTM-2PDMN369	1	25060440	<DC>
P6602	TRM	NTM-2PDMN376	1	25060447	<PA>
P6605	TRM	NTM-4PDMN367	1	25060438	<DC>
P6605	TRM	NTM-4PDMN374	1	25060445	<PA>
P6607	TRM	NTM-4PDMN366	1	25060437	<DC>
P6607	TRM	NTM-4PDMN373	1	25060444	<PA>
P906	CRIMP AS	CRIMP AS	1	206CC45150UL	
P907	CRIMP AS	CRIMP AS	1	206CC45159UL	
P908	AC INLET	NPLG-2P913	1	25055960	!
P910	AC OUTLET	NSCT-4P913	1	25051126	!,<DC>

P910	AC OUTLET	NSCT-2P2013	1	25052115	!,<PA>
P912	PLUG	NPLG-2P631	1	25055675	
P951	PLUG	NPLG-4P151	1	25055167	
P952	PLUG	NPLG-5P119	1	25055135	
P954B	SOCKET	IMSA-9115S-15L	1	25052995	
P955	PLUG	NPLG-2P83	1	25055099	
P959B	SOCKET	IMSA-9115S-18L	1	25052998	
P991	TRM(SCREW)	NEJITANSI M3	1	25065425	
RL6600	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6600 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
RL6602	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6602 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
RL6603	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6603 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
RL6605	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6605 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
RL6607	RELAY	NRL-2P5A-DC24-158	1	25065618	
RL6607 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
RL902	RELAY	NRL-1P10A-DC9-188	1	25065693	
RL902 or	RELAY	NRL-1P10A-DC9-186	(1)	25065683	
E5501	TRM(SCREW)	NEJITANSI M3	1	25065425	

DTR-7.7

PACKING PROCEDURE PARTS LIST

REF. NO.	NAME	DESCRIPTION	Q`TY	PART NO(SN)	REMARKS
A601	PAD	AS	1	29092286A	
A603	CARTON	(ACC)	1	29054470	
A607	LABEL	(SP CABLE)	1	29363059A	
A610	BAG	1020x770	1	29100153	
A611	TAPE	(SEROHAN)NITTO NO.29	1	29110149	
A612	PP TAPE	W48 OPP TAPE	1	29110148	
A630	POLY BAG	350*250	1	29100097-1B	
A650	CARTON	DTR-7.7MDD	1	29054622A	<DD>
A650	CARTON	DTR-7.7MPA	1	29054623A	<PA>
A655a	EAN LABEL	DTR-7.7(B)EAN	1	29364694	<PA>
A655a	UPC LABEL	DTR-7.7(B)UPC	1	29364695	<DD>
A660	LABEL	HOOKUP-INTEGRA	1	29363195	<DD>
A670	WRNTY CARD	(INTEGRA)	1	29365103	<DD>
A820	INS MANUAL	En(DTR-7.7)	1	29344337A	
A821	INS MANUAL	En-DIG(DTR-7.7)	1	29344338	<DD>
A826	INS MANUAL	U9(RC620-623/630-632)	1	29344100	
A827	INST SHEET	En(XM RADIO)	1	29355602	<DD>
A831	REMO CON	RC-621M	1	24140621A	
A841	BATTERY	R6/AA(UM-3)	3	3010194	
A841 or	BATTERY	R6/AA(UM-3)	(3)	3010054	
A843	TAPE	(SEROHAN)NITTO NO.29	1	29110149	
A844	ANT COIL	NMA-3057	1	232140	
A845	FM ANT AS	Type W	1	292191	
A846	POLY BAG	t0.1*70*100	1	29100217	
P901	AC CORD	AS-SAA	1	253391VOL	!,<PA>
P901	AC CORD	AS-UC-2	1	253297KAW	!,<DD>
P901 or	AC CORD	AS-UC-2	(1)	253352TES	!,<DD>
U012	MIC AS	MIC-5000	1	1B068MIC	

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